

Your Pipeline To Quality

Chemline

Chemical Resistance Guide



Thermoplastics

PVC (Polyvinyl Chloride)

The most economical and largest selection of Chemline valves are moulded from PVC. It offers excellent mechanical and chemical resistance properties at low cost. The working temperature range of PVC valves is **0 to 60°C (30 to 140°F)**.

PVC used for Chemline valves is identified by cell classification number **11564-A** as per ASTM Standard D 1784. The suffix **"A"** refers to the highest chemical resistance rating. Most other PVC valves as well as pipe and fittings have only a **"B"** chemical resistance rating.

The special PVC **"A"** compound used in Chemline valves resists attack of most acids, strong alkalis, salts and many other chemicals. High chemical resistance of this material allows its application on aggressive services such as 98% H₂SO₄, dry chlorine and low pressure wet chlorine gas. PVC is attacked by chlorinated hydrocarbons, ketones, esters and some aromatic compounds. It can be used on solutions containing up to 1000 ppm solvents.

Chemline PVC valves are non-toxic. They meet CSA standard B137.0 for toxicity.

They are resistant to damaging effects of sunlight and weathering, thus painting is not necessary.

CPVC (Chlorinated Polyvinyl Chloride)

CPVC is very similar to PVC in mechanical properties and chemical resistance. It is suitable for applications from **0 to 95°C (30 to 200°F)**.

The special CPVC compound used for Chemline valves is classified as **23567-A** as per ASTM D 1784. The suffix **"A"** denotes conformance to the highest chemical resistance rating. The compound is non-toxic, conforming to CSA toxicity standard B137.0.

CPVC valves have proven to be an excellent choice for applications at temperatures too high for PVC or when an extra margin of safety is required.

PP (Polypropylene)

PP is light weight and high in chemical resistance. Valves are suitable for service from **-20 to 90°C (-5° to 195°F)**. PP is unaffected by alkalis, salts, organic solvents and most acids, particularly hydrochloric and phosphoric acid. It is unsuitable on strong acids, chlorinated hydrocarbons, aromatic compounds and high concentrations of free chlorine.

PP is very inert thus popular for high purity applications such as deionized water, etc. The material comes normally opaqued by addition of grey-beige pigment to prevent ultraviolet light penetration. Natural translucent material without pigment will degrade if exposed to UV light (sun light). Chemline offers PP pipe, fittings and valves in pigmented and unpigmented PP, both approved by the FDA for contact with food.

PVDF (Polyvinylidene Fluoride)

PVDF is superior to other valve thermoplastics in chemical resistance and abrasion resistance. It has remarkable strength over the largest working temperature range.

The working temperature range of PVDF valves is **-40 to 120°C (-40 to 250°F)**.

PVDF's impact strength is over twice that of PVC. The valves are extremely durable under mechanical abuse even at -40°F. They also offer the highest abrasion resistance of thermoplastic valves.

PVDF has excellent chemical resistance against halogens such as chlorine and bromine, strong acids such as hydrofluoric and nitric acids, organic solvents and oils. PVDF is not resistant to hot bases.

It is also non toxic and imparts no odours or tastes into the fluid. Our PVDF conforms with USDA Title 21, P121.2593 requirements for contact with food.

Gas permeability of PVDF is extremely low. A patented PVDF gas permeability barrier is available on Type 14 and DV Series Diaphragm Valves. It is a backing to the Teflon® diaphragm and has proven to increase the life of diaphragm valves on chlorine and strong acid services.

Teflon® PTFE (Polytetrafluoroethylene)

PTFE is almost totally insoluble and chemically inert. It has high temperature resistance. Teflon® PTFE ball seats, because of natural lubricity, require no lubrication. Teflon® PTFE diaphragms and flange gaskets are used in the most severe chemical resistance applications.

Elastomers

EPDM (Ethylene Propylene Terpolymer)

EPDM is a synthetic rubber used as the standard seal material for most Chemline valves. It is the most economical choice of elastomer and has excellent chemical resistance on the great majority of applications including acids, alkalis, salts and many others at temperatures up to 90°C. EPDM is weak on organic compounds and cannot be used on oils and fats.

Chemline valves seals of EPDM meet CSA standard B137.0 for non-toxicity.

Viton® (Fluorocarbon Rubber, abv. FPM)

Viton® is more expensive than EPDM so is used as an alternate elastomer when required. It has excellent resistance to mineral acids, oils and many aliphatic and aromatic hydrocarbons. Viton® is weak on sodium hydroxide.

CPE (Chlorinated Polyethylene)

CPE is superior to all other elastomers on sodium hypochlorite. It resists hypochlorite up to full strength (13%). Ball valves supplied with CPE seals are very price competitive on this service.

NITRILE (Acrylonitrile-Butadiene Copolymer, abv. NBR)

Nitrile is also known as Buna-N. It has high chemical resistance to oil and petroleum but is weak on oxidizing media i.e. acids. Nitrile has excellent abrasion resistance and is less expensive than Viton® for butterfly valve seats.

Chemical Resistance

Codes

- (A)** Excellent = Recommended
- (B)** Good = Recommended
- (C)** Fair (limited life)
- (X)** Not Recommended

Corrosion resistance data given in this publication are based on laboratory tests conducted by the manufacturers of the materials covered and are indicative only of the conditions under which the tests were made. The information may be considered as a basis for recommendation but not as a guarantee. Materials should be tested in actual service to determine suitability for a particular purpose. Consult Chemline for ratings on other materials not shown in this book such as **Hypalon** or **Neoprene** seals, or **Polyamide** or **Polysulfone** flow meter tubes.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
		°C	°F								
Acetic Acid CH ₃ COOH	80	20	68	A	B	A	A	A	X	C	X
		40	104	B	C	A	A	A			
		60	140	C	X	C	B	A			
		80	176				C	A			
		100	212					A			
		120	248					A			
Acetic Acid (Glacial) CH ₃ COOH	99	20	68	X	X	A	A	A	X	X	X
		40	104			B	A	A			
		60	140			C	B	A			
		80	176					A			
		100	212					A			
		120	248					A			
Acetic Anhydride (CH ₃ CO) ₂ O	Pure	20	68	X	X	B	B	A	X	C	X
		40	104			C	C	A		X	
		60	140			X	X	A			
		80	176					A			
		100	212					A			
		120	248					A			
Acetone CH ₃ COCH ₃	Pure	20	68	X	X	A	X	A	X	A	X
		40	104			A		A		B	
		60	140			C		A			
		80	176					A			
		100	212					A			
		120	248					A			
Acetone (Aqueous) CH ₃ COCH ₃	10 ppm	20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	B	A	C
		60	140	B	B	A	A	A		A	
		80	176			A	B	A		B	
		100	212				B	A			
		120	248				B	A			
Acetaldehyde CH ₃ CHO	Pure	20	68	X	X	A	X	A	C	A	X
		40	104			A		A	C	A	
		60	140			B		A	X	B	
		80	176					A			
		100	212					A			
		120	248					A			
Acetaldehyde (Aqueous) CH ₃ CHO	40	20	68	X	X	A	X	A	B	A	X
		40	104			A		A	B	A	
		60	140			A		A	C	A	
		80	176			B		A	X	B	
		100	212					A			
		120	248					A			
Acetamide CH ₃ CONH ₂	Satu	20	68			A		A	A	A	A
		40	104					A	A	A	A
		60	140					A			
		80	176					A			
		100	212					A			
		120	248					A			
Acetic Acid CH ₃ COOH	10	20	68	A	A	A	A	A	B	A	B
		40	104	A	A	A	A	A	B	A	
		60	140	A	A	A	A	A	C	B	
		80	176			A	A	A	X		
		100	212					A			
		120	248					B	A		
Acetic Acid CH ₃ COOH	20	20	68	A	A	A	A	A	B	A	X
		40	104	A	A	A	A	A	C	A	
		60	140	A	B	A	A	A	C	B	
		80	176		C	B	B	A	X		
		100	212					B	A		
		120	248					B	A		
Acetyl Bromide CH ₃ COBr	10	20	68					A	A		
		40	104					A	A		
		60	140					A	A		
		80	176					B	A		
		100	212					A			
		120	248					A			
Acetyl Chloride CH ₃ COCl	20	20	68					A	A	X	X
		40	104					A	B	A	
		60	140					C	C	A	
		80	176					X	X	A	
		100	212							A	
		120	248							A	
Acetylene C ₂ H ₂	50	20	68	A	X	A	A	A	A	C	A
		40	104	A	B	A	A	A	A	C	A
		60	140	B	C	A	A	A	A	X	B
		80	176		X		B	A	A		
		100	212				B	A	A	B	
		120	248					A	B		

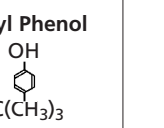
Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
		°C	°F								
Acetaldehyde CH ₃ CHO	Pure	20	68	X	X	A	X	A	C	A	X
		40	104			A		A	C	A	
		60	140			B		A	X	B	
		80	176					A			
		100	212					A			
		120	248					A			
Acetaldehyde (Aqueous) CH ₃ CHO	40	20	68	X	X	A	X	A	B	A	X
		40	104			A		A	B	A	
		60	140			A		A	C	A	
		80	176			B		A	X	B	
		100	212					A			
		120	248					A			
Acetamide CH ₃ CONH ₂	Satu	20	68			A		A	A	A	A
		40	104					A	A	A	A
		60	140					A			
		80	176					A			
		100	212					A			
		120	248					A			
Acetic Acid CH ₃ COOH	10	20	68	A	A	A	A	A	B	A	B
		40	104	A	A	A	A	A	B	A	
		60	140	A	A	A	A	A	C	B	
		80	176			A	A	A	X		
		100	212					A			
		120	248					B	A		
Acetic Acid CH ₃ COOH	20	20	68	A	A	A	A	A	B	A	X
		40	104	A	A	A	A	A	C	A	
		60	140	A	B	A	A	A	C	B	
		80	176		C	B	B	A	X		
		100	212					B	A		
		120	248					B	A		
Acetyl Bromide CH ₃ COBr	10	20	68					A	A		
		40	104					A	A		
		60	140					A	A		
		80	176					B	A		
		100	212					A			
		120	248					A			
Acetyl Chloride CH ₃ COCl	20	20	68					A	A	X	X
		40	104					A	B	A	
		60	140					C	C	A	
		80	176					X	X	A	
		100	212							A	
		120	248							A	
Acetylene C ₂ H ₂	50	20	68	A	X	A	A	A	A	C	A
		40	104	A	B	A	A	A	A	C	A
		60	140	B	C	A	A	A	A	X	B
		80	176		X		B	A	A		
		100	212				B	A	A	B	
		120	248					A	B		

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE		
		°C	°F											°C	°F										
Acrylonitrile CH ₂ =CHCN	Satu	20	68	X	X	B	A	A	X	A	X	Aluminum Nitrate Al(NO ₃) ₃	Satu	20	68	A	A	A	A	A	A	A	A	A	A
		40	104			C	B	A		A				40	104	A	A	A	A	A	A	A	A	A	A
		60	140				C	A		B				60	140	A	A	A	A	A	A	A	A	A	A
		80	176				X	A						80	176		A	A	A	A	A	A	A	A	B
		100	212					A						100	212				A	A	A				
		120	248					A						120	248				A	A					
Adipic Acid HOOC(CH ₂) ₄ -COOH	Satu	20	68	A	A	A	A	A	A	A	A	Aluminum Sulfate Al ₂ (SO ₄) ₃	Satu	20	68	A	A	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A	A			60	140	A	A	A	A	A	A	A	A	A	
		80	176		B	B	A	A	A	B				80	176		A	A	A	A	A				
		100	212				A	A	B					100	212				A	A					
		120	248				A	A						120	248				A	A					
Allyl Alcohol CH ₂ =CHCH ₂ OH	Satu	20	68	A		A	A	A	A		A	Amber Acid (Succinic Acid) CH ₂ =COOH CH ₂ =COOH	Satu	20	68	A	A	A	A	A	A	A	A	A	
		40	104			A	A	A	A	B				40	104	A	A	A	A	A	A	A	A	A	
		60	140			B	A	A	A		B				60	140	A	A	A	A	A	A	A	A	A
		80	176				A	A	B						80	176		B	B	A	A	A	A	A	A
		100	212					A							100	212				A	A	A			
		120	248					B							120	248				A	A				
Allyl Chloride CH ₂ =CHCH ₂ Cl	Satu	20	68	X			A	A	B	X	B	Aminoacetic Acid NH ₂ CH ₂ COOH	10	20	68	A		A	A	A	B	A	A		
		40	104				C	A	B		C			40	104	A		A	A	A			A		
		60	140				X	A	C		X			60	140				A	A					
		80	176					A						80	176				A	A					
		100	212					A						100	212					A					
		120	248					A						120	248					A					
Alum (Potassium alum) K ₂ SO ₄ Al ₂ (SO ₄) ₃	Satu	20	68	A	A	A	A	A	A	A	A	Ammonia Gas NH ₃	100	20	68	A	C	A	A	A	X	A	A		
		40	104	A	A	A	A	A	A	A	A			40	104	A	C	A	A	A		A	A		
		60	140	A	A	A	A	A	A	A	A			60	140	A	X	B	A	A		A	B		
		80	176		A	A	A	A	A	B	B			80	176		X	B	A	A		B			
		100	212				A	A	A					100	212				B	A					
		120	248				A	A						120	248				B	A					
Aluminum Acetate Al(CH ₃ CO ₂) ₃	Satu	20	68	A	A	A	A	A	A	A	A	Ammonia Solution (Ammonium Hydroxide) NH ₄ OH	* 10	20	68	A	C	A	A	A	B	A	A		
		40	104	B	B	A	A	A	B	A				40	104	A	C	A	A	A	C	A	B		
		60	140				A	A		A				60	140	A	X	A	A	A	X	A	B		
		80	176				A	A		A				80	176		X	B	A	A		A			
		100	212				A	A						100	212				A	A		A			
		120	248					A						120	248				B	A					
Aluminum Ammonium Sulfate (Ammonium Alum) (NH ₄)Al(SO ₄) ₂	Satu	20	68			A	A	A	A	A	A	Ammonium Acetate NH ₄ CH ₃ CO ₂	Satu	20	68	A	A	A	A	A	A	A	A		
		40	104			A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A	A	
		60	140			A	A	A	A	A	A			60	140	A	A	A	A	A	A	A	A	A	
		80	176			A	A	A	A	A	B			80	176		B	B	A	A	B	B	B	B	
		100	212				A	A	A					100	212				A	A	B				
		120	248				A	A						120	248				B	A					
Aluminum Bromide Al Br ₃	Satu	20	68	A	A	A	A	A	A	A	A	Ammonium Bicarbonate NH ₄ HCO ₃	Satu	20	68	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A	A			60	140	A	A	A	A	A	A	A	A	A	
		80	176		A	A	A	A						80	176			A	A	A					
		100	212				A	A						100	212				A	A					
		120	248				A	A						120	248					A					
Aluminum Chloride Al Cl ₃	Satu	20	68	A	A	A	A	A	A	A	A	Ammonium Carbonate (NH ₄) ₂ CO ₃	Satu	20	68	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A	A	
		60	140	B	B	A	A	A	A					60	140	A	A	A	A	A	A	A	A	A	
		80	176		B	A	A	A	A					80	176		A	A	A	A	A	A	A		
		100	212				A	A	A					100	212				A	A	A				
		120	248				A	A						120	248				A	A					
Aluminum Fluoride Al F ₃	Satu	20	68	A	A	A	A	A	A	A	A	Ammonium Chloride NH ₄ Cl	Satu	20	68	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A	A			60	140	A	A	A	A	A	A	A	A	A	
		80	176		A	A	A	A	A	A	A			80	176		B	B	A	A	A	A	A	B	
		100	212				A	A	A					100	212				A	A	A				
		120	248				A	A						120	248				A	A					
Aluminum Hydroxide Al(OH) ₃	Satu	20	68	A	A	A	A	A	A	A	A	Ammonium Fluoride NH ₄ F	20	20	68	A		A	A	A	A	A	A		
		40	104	A	A	A	A	A	A	A	A			40	104	A		A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A	A			60	140			A	A	A	A	A	A		
		80	176		A	A	A	A	A	B	B			80	176			B	A	A					
		100	212				A	A	B					100	212				A	A					
		120	248				A	A						120	248				A	A					

*30% Ammonia solution at 50°C, PVC & EPDM recommended.

Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	
			°C	°F										°C	°F											
Ammonium Hydrogen-fluoride NH ₄ F.HF	Satu	20	68	A	A	A	A	A	A	A	A	A	Amyl Acetate CH ₃ COOC ₅ H ₁₁	Pure	20	68	X	X	X	A	A	X	B	X		
		40	104	A	A	A	A	A	A	A	A	A			40	104				A	A		C			
		60	140	A	A	A	A	A	A	A	A	A			60	140				B	A					
		80	176			A	A	B	B						80	176				B	A					
		100	212					A	A	B					100	212					C	A				
		120	248					A	A						120	248										
Ammonium Hydroxide (Ammonium Solution) NH ₄ OH	10	20	68	A	C	A	A	A	A	B	A	A	Amyl Alcohol CH ₃ (CH ₂) ₃ CH ₂ OH	Pure	20	68	A	A	A	A	A	A	A	A	A	
		40	104	A	C	A	A	A	A	C	A	B			40	104	A	A	A	A	A	A	A	A	A	
		60	140	A	X	A	A	A	A	X	A	B			60	140	A	A	A	A	A	A	B	A	A	
		80	176		X	B	A	A			A				80	176		B	B	A	A	B	A			
		100	212				A	A							100	212				A	A					
		120	248				B	A							120	248				A	A					
Ammonium Hydroxide (Ammonium Solution) NH ₄ OH	40	20	68	A	X	A	A	A	A	B	A	B	Amyl Borate (C ₅ H ₁₁) ₃ BO ₃	Pure	20	68	X	X	X	A	A	A	B	A		
		40	104	A	X	A	A	A	C	A	X	40			104				A	A						
		60	140	B	X	A	A	A	X	A		60			140				A	A						
		80	176		X	B	B	A				80			176				A	A						
		100	212				B	A				100			212				A	A						
		120	248				B	A				120			248				A	A						
Ammonium Metaphosphate NH ₄ PO ₃		20	68	A	A	A	A	A	A	A	A	Amyl Chloride CH ₃ (CH ₂) ₃ CH ₂ Cl	Pure	20	68	X	X	X	A	A	B	X	B			
		40	104	A	A	A	A	A	A	A	B			40	104				A	A						
		60	140	A	A	A	A	A	A	A	B			60	140				A	A						
		80	176		A	A	A	A	A					80	176				A	A						
		100	212				A	A						100	212				A	A						
		120	248				A	A						120	248				A	A						
Ammonium Nitrate NH ₄ NO ₃		20	68	A	B	A	A	A	A	A	A	Aniline C ₆ H ₅ NH ₂	Pure	20	68	C	C	B	A	A	A	A	X			
		40	104	A	B	A	A	A	A	A	40			104	X	X	B	B	A	B	C					
		60	140	B	B	A	A	A	A	A	60			140			C	B	A	B	X					
		80	176			A	A	A	A	A	80			176			X	C	A							
		100	212				A	A			100			212				X	A							
		120	248				A	A			120			248					A							
Ammonium Perchlorate NH ₄ ClO ₄	10	20	68	A		A		A				Aniline Hydrochloride C ₆ H ₅ NH ₂ ·HCl	Pure	20	68	B			A	A	A					
		40	104	A		A		A		40	104			B			A	A	A							
		60	140	A		A		A		60	140			C			B	A	A							
		80	176					A		80	176						X	A								
		100	212							100	212															
		120	248							120	248															
Ammonium Persulfate (NH ₄) ₂ S ₂ O ₈		20	68	A		A	A	A	A	A		Animal Oil (Lard)		20	68	A	A	A	A	A	A	A				
		40	104	A		A	A	A	A	A	40			104	A	A	A	A	A	A	A					
		60	140			B	A	A	A		60			140	A	A	A	A	A	A	A					
		80	176					A			80			176		A	A	A	A							
		100	212					A			100			212				A	A							
		120	248					A			120			248				A	A							
Ammonium Phosphate (NH ₄) ₃ PO ₄		20	68	A	A	A	A	A	A	A	A	Antimony Trichloride SbCl ₃	Satu	20	68	A		A	X	A	A	B				
		40	104	A	A	A	A	A	A	A	40			104	A		A		A	A						
		60	140	A	A	A	A	A	A	A	B			60	140	B		B		B	A					
		80	176		A	A	A	A	A		80			176			B		B	B						
		100	212				A	A			100			212					B							
		120	248				A	A			120			248					B							
Ammonium Sulfate (NH ₄) ₂ SO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Antimony Trioxide Sb ₂ O ₃		20	68			A	A	A	A	A				
		40	104	A	A	A	A	A	A	A	40			104				A	A							
		60	140	A	A	A	A	A	A	A	60			140				A	A							
		80	176		A	A	A	A	A	A	80			176				A	A							
		100	212				A	A			100			212				A								
		120	248				A	A			120			248					C	B						
Ammonium Sulfide (NH ₄) ₂ S	Satu	20	68	A	A	A	A	A	X	A	X	Aqua Regia HNO ₃ +3HCl		20	68	C	C	C	A	A	B	A	X			
		40	104	A		A	A	A	A	A	40			104	C	C	C	A	A		B					
		60	140	B		A	A	A	A		60			140			X	A	A		C					
		80	176			A	A	A			80			176				A	A							
		100	212				A	A			100			212				B	A							
		120	248				A	A			120			248				C	B							
Ammonium Sulfite (NH ₄) ₂ SO ₃		20	68	A		A	A	A	A	A	A	Arsenic Acid H ₃ AsO ₄	Satu	20	68	A	A	A	A	A	A	A				
		40	104	A		A	A	A	A	A	40			104	B	B	A	A	A	A	A					
		60	140				A	A			60			140	C	B	B	A	A	A	B	B				
		80	176				A	A			80			176		C	C	A	A	B	B	B				
		100	212					A			100			212				A	A	B						
		120	248								120			248				A	A							

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE		
		°C	°F											°C	°F										
Asphalt		20	68	X	X	A	A	A	A	X	B	Benzene Sulfonic Acid C ₆ H ₅ SO ₃ H	10	20	68	A			A	A	A	A	X		
		40	104			A	A	A	A		B			40	104				B	A	A				
		60	140			A	A	A	A					60	140				C	A	A				
		80	176				A	A	A					80	176				X	A					
		100	212				A	A						100	212					A					
		120	248				A	A						120	248					B					
Barium Carbonate BaCO ₃	Satu	20	68	A	A	A	A	A	A	A	A	Benzine	Pure	20	68			A	A	A	A	X	A		
		40	104	A	A	A	A	A	A	A	A			40	104			B	A	A	A		A		
		60	140	A	A	A	A	A	A	A	A			A	60	140			C	B	A	A		B	
		80	176		A	A	A	A	A	A	A			B	80	176					A	B			
		100	212				A	A	A					100	212					A					
		120	248				A	A	A					120	248										
Barium Chloride BaCl ₂	Satu	20	68	A	A	A	A	A	A	A	A	Benzoic Acid C ₆ H ₅ COOH	Pure	20	68	A	A	A	A	A	A	A	B		
		40	104	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A	B	B		
		60	140	A	A	A	A	A	A	A	A			A	60	140	B	B		A	A	A	B	B	
		80	176		A	A	A	A	A	A	A			B	80	176		C		A	A	A			
		100	212				A	A	A					100	212				A	A	B				
		120	248				A	A	A					120	248				B						
Barium Hydroxide Ba(OH) ₂	Satu	20	68	A	A	A	A	A	A	A	A	Benzoyl Chloride C ₆ H ₅ COCl		20	68	X	X	A	A	A	X	X	X		
		40	104	A	A	A	A	A	A	A	A			40	104				A	A					
		60	140	A	A	A	A	A	A	A	A			A	60	140				B	A				
		80	176		B	A	B	A	A	A	B				80	176					A				
		100	212					A	A					100	212										
		120	248					A	A					120	248										
Barium Nitrate Ba(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A	Benzyl Alcohol C ₆ H ₅ CH ₂ OH	Pure	20	68			A	A	A	A	A	X		
		40	104	A	A	A	A	A	A	A	A			40	104			A	A	A	A	B			
		60	140	A	A	A	A	A	A	A	A			A	60	140			A	A	A	A	C		
		80	176		A	A	A	A	A	A	B				80	176				A	A	B			
		100	212				A	A	A					100	212				A	A	B				
		120	248				A	A	A					120	248				A	A					
Barium Sulfate BaSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Benzyl Benzoate C ₆ H ₅ COOCH ₂ -C ₆ H ₅	Satu	20	68				A	A		B	X		
		40	104	A	A	A	A	A	A	A	A			40	104				B	A					
		60	140	A	A	A	A	A	A	A	A			A	60	140				B	A				
		80	176		A	A	A	A	A	A	B				80	176									
		100	212				A	A	A					100	212										
		120	248				A	A	A					120	248										
Barium Sulfide BaS	Satu	20	68	A	A	A	A	A	A	B	B	Benzyl Chloride C ₆ H ₅ CH ₂ Cl	Pure	20	68			A	A	A	C	B	X		
		40	104	A	A	A	A	A	A	A	B			40	104				A	A					
		60	140	A	A	A	A	A	A	A	A				60	140				A	A				
		80	176		A	A	A	A	A						80	176				A	A				
		100	212				A	A	A						100	212									
		120	248				A	A	A						120	248									
Beer		20	68	A	A	A	A	A	A	B	B	Black Liquor	Satu	20	68	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A	A	B			40	104	A	A	A	A	A	A	A	A		
		60	140	A	A	A	A	A	A	A	A			B	60	140	B	A	A	A	A	A	A	A	
		80	176		A	A	A	A	A	A	B				80	176		B	B	A	A	A	A	B	
		100	212				A	A							100	212				A	A	A			
		120	248				A	A							120	248				B					
Beet Sugar Liquors		20	68	A	A	A	A	A	A	A	A	Bleaching Agent Ca(ClO) ₂ CaCl ₂ -2H ₂ O	5	20	68	A	A		A	A	A	A	C		
		40	104	A	A	A	A	A	A	A	A			40	104	A	A		A	A	A	A	A		
		60	140	A	A	A	A	A	A	A	A			A	60	140	A	A		A	A				
		80	176		A	A	A	A	A						80	176				A	A				
		100	212				A	A							100	212				A	A				
		120	248				A	A							120	248				A	A				
Benzaldehyde C ₆ H ₅ CHO	Satu	20	68	X		A	A	A	C	C	X	Bleaching Agent Ca(ClO) ₂ CaCl ₂ -2H ₂ O	12	20	68	A	A		A	A	A	A	B	C	
		40	104				A	A							40	104	A	A		A	A				
		60	140				B	A							60	140	A	A		A	A				
		80	176					A							80	176				A	A				
		100	212					A							100	212				A	A				
		120	248					A							120	248				A	A				
Benzene C ₆ H ₆	Pure	20	68	C	C	B	A	A	A	X	X	Borax (Sodium Borate) Na ₂ B ₄ O ₇ ·10H ₂ O	Satu	20	68	A	A	A	A	A	A	A	A		
		40	104	X	X	C	B	A	B					40	104	A	A	A	A	A	A	A	A	B	
		60	140				B	A	B						60	140	A	A	A	A	A	A	A	A	C
		80	176				C	A	B						80	176		A	A	A	A	A	A		X
		100	212				X	A							100	212				A	A				
		120	248					A							120	248				A	A				

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE					
		°C	°F											°C	°F													
Boric Acid H ₃ BO ₃	Satu	20	68	A	A	A	A	A	A	A	A	Butyl Bromide C ₄ H ₉ Br	Pure	20	68				A	A								
		40	104	A	A	A	A	A	A	A	A			A	A	A												
		60	140	A	A	A	A	A	A	A	A			A	A	A												
		80	176		B	A	A	A	A	A	A			B	A	A												
		100	212					A	A	B																		
		120	248					A	A																			
Boron Trichloride BCl ₃		20	68	A		A	A	A	A	A	A	Butyl Carbitol O(CH ₂ CH ₂ OC ₄ H ₉) CH ₂ CH ₂ OH		20	68				A	A		A	A					
		40	104	A		A	A	A	A	A	A			A	B	A												
		60	140	A		A	A	A	A	A	A			A	C	A												
		80	176			A	A	A	A																			
		100	212					A	A																			
		120	248						A																			
Bromic Acid HBrO ₃	Pure	20	68	A	A	X	A	A				Butyl Cellosolve C ₄ H ₉ O(CH ₂) ₂ OH	Pure	20	68				A	A	X							
		40	104	A	A		A	A						A	A													
		60	140				A	A						B	A													
		80	176				A	A						C	A													
		100	212				A	A						X														
		120	248				B	A																				
Bromine Vapor	25	20	68	B		X	A	A	A	X	X	Butyl Chloride CH ₃ (CH ₂) ₃ Cl		20	68	X	X	X	A	A								
		40	104	C			A	A	A					A	A													
		60	140				A	A	A					A	A													
		80	176				A	A						A	A													
		100	212				B	A						A	A													
		120	248				B	A							A	A												
Bromine Solution (Aqueous)	Satu	20	68	A	C	C	A	A	A	X	X	Butyn Diol HO(CH ₂) ₃ OH		20	68	A		A	A	A	A	A	A	A				
		40	104	B		X	A	A	A					B	A	A	A	A	A	A	A	A	A					
		60	140				A	A							A	A	A	A	A	A	A	A	A	A				
		80	176				A	A							A	A												
		100	212				B	A							A	A												
		120	248				B	A							A	A												
Butadiene CH ₂ =CHCH=CH ₂	Gas	20	68	A	A		A	A	A	X	B	Butyl Ether C ₄ H ₉ OC ₄ H ₉		20	68	X	X	C	A	A	X	X	B					
		40	104	A	A		A	A	A					C														
		60	140	A			A	A	A						A	A												
		80	176				A	A							A	A												
		100	212				A	A							A	A												
		120	248				A	A							A	A												
Butane CH ₃ (CH ₂) ₂ CH ₃	Gas	20	68	A	A	A	A	A	A	X	A	Butyl Mercaptan CH ₃ (CH ₂) ₃ SH	Pure	20	68				A	A								
		40	104	A	A	A	A	A	A					B														
		60	140	A	A	A	A	A	A						A	A												
		80	176			A	A	A	A						A	A												
		100	212					A																				
		120	248					A																				
Butyl Acetate CH ₃ COOC ₄ H ₉	Pure	20	68	C	C	C	A	A	X	B	X	Butyl Phenol 		20	68	C	C	A	A	A	C	X	X					
		40	104	X	X	X	B	A		C					A	A												
		60	140				X	A		X					A	A												
		80	176												A	A												
		100	212												A	A												
		120	248												A	A												
Butyl Acrylate CH ₂ =CHCOOC ₄ H ₉	Pure	20	68	X	X	X	A	A	X	A	X	Butyl Phthalate C ₆ H ₄ (COOC ₄ H ₉)COOH		20	68				A	A	A	B	B	X				
		40	104				B	A		A				A	A													
		60	140				C	A						A	B													
		80	176				X								A	C												
		100	212													X												
		120	248																									
Butyl Alcohol C ₄ H ₉ OH	Pure	20	68	A	A	A	A	A	A	A	B	Butyl Stearate C ₁₇ H ₃₅ COOC ₄ H ₉	Pure	20	68				A	A	A	C	A					
		40	104	A	A	A	A	A	B	A	B				A	A												
		60	140	B	A	A	A	A	C	A	B				A	A												
		80	176		B	A	A	A		A					A	A												
		100	212				A	A								A												
		120	248				A	A								A												
Butyl Amine C ₄ H ₉ NH ₂	Satu	20	68	X	X	X	B	A	A	X	A	Butylene CH ₃ CH ₂ CH=CH ₂		20	68				A	A	A							
		40	104				X	A						A	A	A												
		60	140					A							A	A	A											
		80	176												A	A	B											
		100	212													A	A											
		120	248													A	A											

Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE		
			°C	°F										°C	°F												
Butyric Acid CH ₃ CH ₂ CH ₂ COOH	Pure	20	68	B	B	A	A	A	B	B	X		Calcium Sulfate CaSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104			A	A	A	C							40	104	A	A	A	A	A	A	A	A	A	A
		60	140			A	A	A	X							60	140	A	A	A	A	A	A	A	A	A	A
		80	176			A	A	A								80	176		A	A	A	A	A	A	A	A	B
		100	212					A	A							100	212				A	A	A				
		120	248					B	A							120	248				A	A					
Caffeine Citrate		20	68					A	A				Calcium Sulfide CaS	Satu	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104					A	A						40	104	A	A	A	A	A	A	A	A	A	A	
		60	140					A	A						60	140	A	A	A	A	A	A	A	A	A	A	
		80	176					A	A						80	176			A	A	A	A	A	A	A	B	
		100	212							A	A					100	212				A	A	A				
		120	248							A						120	248				A	A					
Calcium Acetate Ca(CH ₃ COO) ₂	Satu	20	68	A	A	A	A	A	A	A	A	A	Caprylic Acid CH ₃ (CH ₂) ₆ COOH	Pure	20	68					A	A					
		40	104	A	A	A	A	A	A	A	A	A			40	104				A	A						
		60	140	A	A	A	A	A	A	A	A	A			60	140				A	A						
		80	176		B	B	A	A	A	A					80	176				A	A						
		100	212					A	A						100	212				A	A						
		120	248					B	A						120	248				A	A						
Calcium Bisulfite (Calcium hydrogen sulfite) Ca ₂ (HCO ₃) ₂		20	68	A	A	A	A	A	A	A	A	A	Carbitol C ₂ H ₅ (OCH ₂ ·CH ₂) ₂ OH		20	68							A	A			
		40	104	A	A	A	A	A	A	A	A	A			40	104	B			B	A	B			C		
		60	140			A	A	A	A						60	140				C	A	C					
		80	176			A	A	A	A						80	176				A							
		100	212					A	A						100	212					A						
		120	248													120	248										
Calcium Bromide CaBr ₂		20	68	A	A	A	A	A	A	A	A	A	Carbon Dioxide Gas CO ₂	Wet	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A	A	A			60	140	A	A	A	A	A	A	A	A	A	A	
		80	176					A	A						80	176		A	A	A	A	A	A	A	A	B	
		100	212					A	A						100	212				A	A	A					
		120	248													120	248				A	A	A				
Calcium Carbonate CaCO ₃	Satu	20	68	A	A	A	A	A	A	A	A	A	Carbon Dioxide Gas CO ₂	Dry	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A	A	B				60	140	A	A	A	A	A	A	A	A	A	A
		80	176			A	A	A	A						80	176		A	A	A	A	A	A	A	A	A	
		100	212					A	A						100	212				A	A	A					
		120	248					A	A						120	248				A	A	A					
Calcium Chlorate Ca(ClO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	C		Carbon Disulfide CS ₂	Pure	20	68	C	C	X	A	A	A	X	C			
		40	104	A	A	A	A	A	A	A					40	104	C	C			A	B			C		
		60	140	A	A	A	A	A	A	A					60	140	X	X			A	C			X		
		80	176			A	A	A	A						80	176					A	X					
		100	212					A	A						100	212					A						
		120	248					A	A						120	248											
Calcium Chloride CaCl ₂	Satu	20	68	A	A	A	A	A	A	A	A	A	Carbon Monoxide CO	Gas	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A	A	B				60	140	A	A	A	A	A	A	A	A	A	A
		80	176			A	A	A	A						80	176		A	A	A	A	A	A	A	A	B	
		100	212					A	A						100	212				A	A	A					
		120	248					A	A						120	248				A	A						
Calcium Hydroxide Ca(OH) ₂	Satu	20	68	A	A	A	A	A	A	A	A	A	Carbon Tetrachloride CCl ₄	Pure	20	68	C	C	X	A	A	B	X	X			
		40	104	A	A	A	A	A	A	A	A				40	104	X	X			A	A					
		60	140	A	A	A	A	A	A	A	A				60	140				A	A						
		80	176			B	A	A	A	A	A	C				80	176				A	A					
		100	212				B	A	A						100	212				A	A						
		120	248					A	A						120	248				A	A						
Calcium Hypochlorite Ca(ClO) ₂	Satu	20	68	A	A	A	A	A	A	B	C		Carbonic Acid H ₂ CO ₃	Satu	20	68	A	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A	B					40	104	A	A	A	A	A	A	A	A	A	A	
		60	140	B	B	B	A	A	A	C					60	140	A	A	A	A	A	A	A	A	A	A	
		80	176			C	C	A	A	B	C				80	176		B	B	A	A	A	A	A	A	B	
		100	212					B	A	C					100	212				A	A	B					
		120	248												120	248				A	A						
Calcium Nitrate Ca(NO ₃) ₂		20	68	A	A	A	A	A	A	A	A	A	Casein		20	68					A	A	A	A			
		40	104	A	A	A	A	A	A	A	A				40	104				A	A	A	A	A			
		60	140	A	A	A	A	A	A	A	A				60	140				A	A	A	A	A			
		80	176			A	A	A	A						80	176				A	A	A	A				
		100	212					A	A						100	212				A	A						
		120	248					A	A						120	248				A	A						

*Special Viton FPM-C required. Consult Chemline.



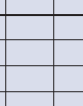
Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
		°C	°F											°C	°F								
Castor Oil	Pure	20	68	A	A	A	A	A	A	A	A	Chromic Acid Anhydride CrO ₃	10	20	68	A	A	X	A	A	A	B	X
		40	104	A	A	A	A	A	A	A	A			40	104	A	A		A	A	B	C	
		60	140	A	A	A	A	A	A	A	A			60	140	A	B		A	A	B	X	
		80	176		A	A	A	A						80	176		C		A	A	B		
		100	212				A	A						100	212				A	A	X		
		120	248				A	A						120	248								
Chloric Acid HClO ₃	20	20	68	A		X	A	A	A	A	C	20	20	68	A	A	X	A	A	B	B	X	
		40	104	A	B		A	A		A	40		104	A	B		A	A	B	X			
		60	140	B			A	A			60		140	B	C		A	A	B				
		80	176				A	A			80		176				A	A	C				
		100	212								100		212				A	A	X				
		120	248								120		248										
Chlorine Dioxide ClO ₂	8 gm/li	20	68	A	A	C	A	A	A		30	20	68	C	C	X	A	A	X	X	X		
		40	104	A	B	X	A	A		A*		40	104	X	X		A	A					
		60	140	B	B		A	A				60	140				A	A					
		80	176				A	A				80	176				B	A					
		100	212				A	A				100	212				C	A					
		120	248									120	248										
Chlorine Dioxide ClO ₂	14 gm/li	20	68	A	A	C	A	A	A*		50	20	68	C	C	X	A	A	X	X	X		
		40	104	A	B	X	A	A				40	104	X	X		A	A					
		60	140	B	B		A	A				60	140				A	A					
		80	176				A	A				80	176				B	A					
		100	212									100	212					A					
		120	248									120	248										
Chlorine Gas Cl ₂	** Wet	20	68	A	A	X	A	A	X	X	X	Satu	20	68	A	A	A	A	A	A	A	A	
		40	104	A	B		A	A			40		104	A	A	A	A	A	A	A	A		
		60	140	B	C		A	A			60		140	A	A	A	A	A	A	A	A		
		80	176				A	A			80		176			A	A	A	A	B	B		
		100	212				A	A			100		212				A	A	A				
		120	248				A	A			120		248				B						
Chlorine Gas (up to 150 ppm moisture) Cl ₂	Dry	20	68	A	A	X	A	A	B	B	X	10	20	68	A	A	A	A	A	A	A	A	
		40	104	A	A		A	A	C	X	40		104	A	A	A	A	A	A	A	A		
		60	140	A	A		A	A	X		60		140	B	B	A	A	A	A	A	A		
		80	176				A	A			80		176		B	A	A	A	A	A	A		
		100	212				A	A			100		212				A	A	A				
		120	248				A	A			120		248										
Chlorine Solution (Chlorinated Water)	400 ppm	20	68	A	A	C	A	A	C	B	X	Coconut Oil	20	68	A	A	A	A	A	A	B	A	
		40	104	A	B	X	A	A	X	C	40		104	A	A	A	A	A	A	B	A		
		60	140	B	B		A	A			60		140	A	A	A	A	A					
		80	176				A	A			80		176		A	A	A	A					
		100	212				A	A			100		212				A	A					
		120	248				A	A			120		248				A	A					
Chlorine Solution (Chlorinated Water)	3000 ppm	20	68	A	A	X	A	A			X	Copper Acetate Cu(CH ₃ COO) ₂	20	68	A	A	A	A	A	A	A	A	
		40	104	A	A		A	A			40		104				A	A	A	A			
		60	140				A	A			60		140				A	A	A				
		80	176								80		176				A	A					
		100	212								100		212				A	A					
		120	248								120		248					A					
Chlorobenzene (Monochlorobenzene) C ₆ H ₅ Cl	Pure	20	68	X	X	B	A	A	B	X	X	Copper Borofluoride Cu(BF ₄) ₂	20	68	A	A	A	A	A	A	A	A	
		40	104			C	A	A			40		104				A	A	A	A			
		60	140				A	A			60		140				A	A	A				
		80	176				B	A			80		176				A	A	A				
		100	212				B	A			100		212				A	A					
		120	248								120		248				A	A					
Chloroform (Trichloromethane) CHCl ₃	Pure	20	68	X	X	X	C	A	X	X	X	Copper Carbonate Cu ₂ CO ₃	20	68	A	A	A	A	A	A	A	A	
		40	104			X	A	A			40		104	A			A	A					
		60	140				B	A			60		140				A	A					
		80	176				C	A			80		176				A	A					
		100	212				X	A			100		212				A	A					
		120	248								120		248				A	A					
Chloro-sulfonic Acid HSO ₃ Cl	Pure	20	68	X	X	X	C	A	X	X	X	Copper Chloride CuCl ₂	20	68	A	A	A	A	A	A	A	A	
		40	104				X	A			40		104	A	A	A	A	A	A	A			
		60	140					A			60		140	A	A	A	A	A	A	A			
		80	176					A			80		176		A	A	A	A	A	A			
		100	212								100		212				A	A	A				
		120	248								120		248				A	A					


**DV Series and Type 14 Diaphragm Valves with PVDF Gas Barriers are always recommended for Wet Chlorine gas.

PVC or CPVC material bodies are recommended for maximum 21 psi services. Consult Chemline on all chlorine gas applications.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		°C	°F											°C	°F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Copper Cyanide CuCN	Satu	20	68	A	A	A	A	A	A	A	A	Cupric Bromide CuBr ₂		20	68	A			A	A						40	104			A	A	A					60	140			A	A	A					80	176			B	A	A					100	212				B	A					120	248				C						Copper Fluoride CuF	Satu	20	68	A	A	A	A	A	A	A	A	Cupric Fluoride CuF ₂	Satu	20	68	A	A	A	A	A	A	A	A	A	40	104	A	A	A	A	A	A	A	A	A	60	140	B	B	B	A	A					80	176				A	A					100	212				A	A					120	248				B						Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A	Cuprous Chloride CuCl	Satu	20	68	A	A	A	A	A	A	A	A	A	40	104	A	A	A	A	A	A	A	A	A	60	140	B	B	A	A	A	A	A	A	A	80	176			B	A	A	A	A	B		100	212				A	A	A				120	248				A	A					Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20	68	X	X	C	A	A	A	A	X	B	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	A			100	212				A	A	A				120	248				A	A					Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20	68	X	X	A	A	A	A	B	C	40	104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A	A		A		80	176				A	A					100	212				A	A					120	248				A	A					Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A	X	C	X	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	B			100	212				A	A	A				120	248				A	A					Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X	X	40	104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A	A	B	A		80	176			B	A	A	B	C	A		100	212				A	A	B				120	248				A	A					Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68				A	A		X	X	40	104				A	A					60	140				A	A					80	176				A						100	212				A						120	248				A						Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68	A	A		A	A	A			40	104			B	A	A	A				60	140				B	A	B				80	176				B	A					100	212				C	A					120	248										Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68	A	A	A	A	A	A	A	A	40	104				A	A					60	140				B	A					80	176				B	A				B	100	212				C	A					120	248										Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A	A	A	40	104	B	B	A	A	A					60	140	B	C	A	A	A					80	176			A	A	A					100	212				A	A					120	248				A	A																																																																																																													
		40	104			A	A	A							60	140			A	A	A					80	176			B	A	A					100	212				B	A					120	248				C						Copper Fluoride CuF	Satu	20	68	A	A	A	A	A	A	A	A	Cupric Fluoride CuF ₂	Satu	20	68	A	A	A	A	A	A			A	A	A	40	104	A	A	A	A	A			A	A	A	A	60	140	B	B	B	A	A					80	176				A	A					100	212				A	A					120	248				B						Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A	Cuprous Chloride CuCl	Satu	20	68	A	A			A	A	A	A	A	A	A	40	104	A			A	A	A	A	A	A	A	A	60	140	B	B	A	A	A	A	A	A	A	80	176			B	A	A	A	A	B		100	212				A	A	A				120	248				A	A					Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure			20	68	X	X	C	A	A	A	A	X			B	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	A			100	212				A	A	A				120	248				A	A					Corn Oil	Satu	20	68	A	A	A	A	A	A			B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20	68	X	X	A	A			A	A	B	C	40	104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A	A		A		80	176				A	A					100	212				A	A					120	248				A	A					Corn Syrup	Satu	20	68	A	A			A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68			X	X	B	A	A	X	C	X	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	B			100	212				A	A	A				120	248				A	A					Cottonseed Oil	Pure			20	68	A	A	A	A	A	A	B	A			Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X	X	40	104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A	A	B	A		80	176			B	A	A	B	C	A		100	212				A	A	B				120	248				A	A							Creosote	Pure	20	68	X	X	A	A			A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68				A	A		X	X	40	104				A	A					60	140				A	A					80	176				A						100	212				A						120	248						A						Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68			C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68	A	A		A	A	A			40	104			B	A	A	A				60	140				B	A	B				80	176				B	A					100	212				C	A					120			248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68	A	A	A	A	A	A	A	A	40	104				A	A					60	140				B	A					80	176				B	A				B	100	212				C	A							120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A	A	A	40	104	B	B	A	A	A					60	140	B	C	A	A	A					80	176			A	A	A					100	212				A	A					120	248				A	A																																																																																											
		60	140			A	A	A							80	176			B	A	A					100	212				B	A					120	248				C						Copper Fluoride CuF	Satu	20	68	A	A	A	A	A	A	A			A	Cupric Fluoride CuF ₂	Satu	20	68	A	A	A	A	A			A	A	A	A	40	104	A	A			A	A	A	A	A	A	A	60	140	B			B	B	A	A					80	176				A	A					100	212				A	A					120	248				B						Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A			A	A	A	A	A	Cuprous Chloride CuCl	Satu	20	68	A			A	A	A	A			A	A	A	A	40	104	A	A	A	A			A	A	A	A	A	60	140	B	B	A	A	A	A	A	A	A	80	176			B	A	A	A	A	B		100	212				A	A	A				120	248				A	A					Copper Sulfate CuSO ₄	Satu	20			68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂					Pure	20	68	X	X	C	A	A	A	A			X	B	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	A			100	212				A	A	A				120	248				A	A							Corn Oil	Satu	20	68	A	A	A			A	A			A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40	104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A	A		A		80	176				A	A					100	212				A	A					120	248				A			A							Corn Syrup	Satu	20	68	A			A	A			A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A	X	C	X	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	B			100	212				A	A	A				120	248								A	A					Cottonseed Oil					Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X	X	40	104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A	A	B	A		80	176			B	A	A	B	C	A		100	212				A	A			B						120	248						A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68				A	A		X	X	40	104				A	A					60	140				A	A					80	176				A								100	212						A								120	248						A						Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68	A	A		A	A	A			40	104			B	A	A	A				60	140				B	A	B				80	176						B	A					100					212				C	A							120	248										Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68	A	A	A	A	A	A	A	A	40	104				A	A					60	140						B	A					80	176						B	A						B	100	212				C	A							120	248										Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A	A	A	40	104	B	B	A	A	A					60	140	B	C	A	A	A					80	176			A	A	A					100	212				A	A					120	248				A	A																																																														
		80	176			B	A	A							100	212				B	A					120	248				C						Copper Fluoride CuF	Satu	20	68	A	A	A	A	A	A	A			A	Cupric Fluoride CuF ₂	Satu	20	68	A	A	A	A			A			A	A	A	A	40	104	A			A	A	A	A	A	A	A	A			60	140	B	B	B	A	A							80	176				A	A					100	212				A	A					120	248				B						Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A			A	A	A	A	A			Cuprous Chloride CuCl	Satu	20	68	A			A	A	A			A	A	A	A			A	40	104	A	A	A	A	A	A	A			A	A	60	140	B	B	A	A	A	A	A	A	A	80	176			B	A	A	A	A	B		100	212				A	A	A				120	248				A	A					Copper Sulfate CuSO ₄	Satu	20			68			A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂							Pure	20	68	X	X	C	A	A	A			A	X	B	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	A			100	212				A	A	A				120	248				A	A									Corn Oil	Satu	20	68			A	A			A	A	A			A			B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20	68	X	X	A	A	A	A	B	C	40	104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A	A		A		80	176				A	A					100	212				A	A					120			248						A			A									Corn Syrup	Satu	20	68	A			A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A	X	C	X	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	B			100	212								A	A	A				120	248										A	A					Cottonseed Oil			Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X	X	40	104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A	A	B	A		80	176			B			A	A			B	C	A		100	212						A			A	B						120	248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68				A	A		X	X	40	104				A	A					60	140						A	A							80			176				A								100	212						A						120	248						A						Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68	A	A		A	A	A			40	104					B	A	A	A				60	140								B	A	B				80			176				B	A					100			212				C	A							120	248										Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40			104						A	A					60	140						B	A					80	176				B	A						B	100	212				C	A							120	248										Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A	A	A	40	104	B	B	A	A	A					60	140	B	C	A	A	A					80	176			A	A	A					100	212				A	A					120	248				A	A																																	
		100	212				B	A							120	248				C						Copper Fluoride CuF	Satu	20	68	A	A	A	A	A	A	A			A	Cupric Fluoride CuF ₂	Satu	20	68	A	A	A	A			A			A	A	A	A	40	104			A			A	A	A	A	A	A	A			A	60	140	B	B	B	A	A							80	176				A			A					100	212				A	A					120	248				B						Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A			A	A	A	A	A			Cuprous Chloride CuCl	Satu	20	68	A					A	A	A			A	A	A			A	A	40	104			A	A	A	A	A	A	A	A	A	60			140	B	B	A	A	A	A	A	A	A	80	176			B	A	A	A	A	B		100	212				A	A	A				120	248				A	A					Copper Sulfate CuSO ₄	Satu	20			68			A			A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂									Pure	20	68	X	X	C	A	A			A	A	X	B	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	A			100	212				A	A	A				120	248				A	A											Corn Oil			Satu	20			68	A	A			A			A	A			A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20	68	X	X	A	A	A	A	B	C	40	104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A	A		A		80	176				A	A					100	212				A	A									120			248						A					A							Corn Syrup	Satu	20	68	A			A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A	X	C	X	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A					A	A	B			100	212										A	A	A				120	248								A	A					Cottonseed Oil			Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X	X	40	104	A	A	A	A	A	A	B	A		60	140	A			A	A			A	A	A	B	A				80	176					B	A	A			B	C	A		100	212				A			A	B						120	248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68				A	A				X	X	40	104						A			A					60	140						A	A							80	176				A								100	212						A						120	248						A						Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X			A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68					A	A		A	A	A			40	104					B	A	A	A				60	140						B	A	B				80			176				B	A					100			212				C	A							120			248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68			X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu			20	68	A	A	A	A	A	A	A	A	40	104						A	A					60	140						B	A					80	176				B	A						B	100	212				C	A							120	248										Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A	A	A	40	104	B	B	A	A	A					60	140	B	C	A	A	A					80	176			A	A	A					100	212				A	A					120	248				A	A				
		120	248				C								Copper Fluoride CuF	Satu	20	68	A	A	A	A	A	A	A			A	Cupric Fluoride CuF ₂	Satu	20	68	A	A	A	A			A			A	A	A	A	40	104			A			A	A	A	A	A	A			A			A	60	140	B	B	B	A			A					80	176						A	A					100	212						A	A					120	248				B						Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A			A	A	A	A	A			Cuprous Chloride CuCl	Satu	20	68	A					A	A	A					A	A	A			A	A	40			104	A	A	A			A	A	A	A	A	A	60	140	B	B			A	A	A	A	A	A	A	80	176			B	A	A	A	A	B		100	212				A	A	A				120	248				A	A					Copper Sulfate CuSO ₄	Satu	20			68			A			A			A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂											Pure	20	68	X	X	C	A			A	A	A	X	B	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	A			100	212				A	A	A				120	248				A	A																	Corn Oil	Satu	20			68			A	A			A	A	A			A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20	68	X	X	A	A	A	A	B	C	40	104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A	A		A		80	176				A	A					100	212						A			A									120					248						A			A							Corn Syrup	Satu	20	68	A			A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A	X	C	X	40	104	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A					A	A		80	176		A	A	A							A	A	B			100	212								A	A	A				120	248								A	A					Cottonseed Oil			Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X	X	40			104	A			A	A	A	A	A	B			A		60	140			A	A	A			A	A	A	B	A		80	176					B	A	A			B	C	A		100	212				A			A	B						120	248				A	A							Creosote	Pure	20	68	X			X	A	A	A	A	X			A	Decane CH ₃ (CH ₂) ₈ CH ₃			Pure	20	68				A	A				X	X	40	104						A	A					60	140						A	A							80	176				A								100	212						A								120	248						A										Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C			X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68			A	A		A	A	A			40	104					B	A	A	A				60	140						B	A	B				80			176						B	A					100					212						C	A									120	248										Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68			X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu			20	68	A	A	A	A	A	A	A	A	40	104						A	A					60	140						B	A					80	176				B	A						B	100	212				C	A							120	248										Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A	A	A	40	104	B	B	A	A	A					60	140	B	C	A	A	A					80	176		
Copper Fluoride CuF	Satu	20	68	A	A	A	A	A	A	A	A	Cupric Fluoride CuF ₂	Satu	20			68	A	A	A	A	A	A	A	A			A			40	104	A	A	A	A			A			A	A	A	A	60	140			B			B	B	A	A									80	176				A			A					100	212				A	A					120	248				B						Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A	Cuprous Chloride CuCl	Satu	20			68	A	A	A	A			A	A	A	A	A					40	104	A					A	A	A					A	A	A			A	A	60			140	B	B	A	A	A	A	A	A	A	80	176			B	A	A	A	A	B		100	212				A	A	A				120	248				A	A					Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20			68			X			X			C			A	A	A	A	X	B							40	104					A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	A			100	212				A	A	A				120	248				A	A					Corn Oil	Satu	20	68	A	A	A	A	A	A	B			A			Cyclohexanol C ₆ H ₁₁ OH			Pure		20	68		X					X			A	A	A	A	B			C	40	104			A	A	A			A	A	A	B	A		60	140	A	A	A	A	A	A		A		80	176				A	A					100	212				A	A					120	248				A			A					Corn Syrup	Satu			20	68	A			A	A	A	A			A	A	A			Cyclohexanone C ₆ H ₁₀ O	Pure			20	68	X			X	B			A	A	X			C	X	40	104	A	A	A			A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		80	176		A	A	A	A	A	B			100			212				A	A	A				120		248							A	A					Cottonseed Oil					Pure	20	68	A	A	A	A	A	A					B	A	Decalin C ₁₀ H ₁₈	Pure	20	68			X					A	A	A	X	X	40	104	A	A	A			A	A	A	B	A		60	140	A	A	A	A	A	A	B			A		80	176			B	A	A	B	C	A				100	212						A	A	B				120			248						A	A					Creosote	Pure	20			68	X	X			A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68								A	A		X	X	40	104				A			A							60	140						A	A					80			176				A								100	212				A								120	248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure			20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)				20	68	A	A				A	A	A					40	104					B	A	A	A								60	140				B	A	B						80	176				B	A							100	212				C	A							120	248										Croton Aldehyde CH ₃ CH=CH·CHO	Pure			20	68			X		A	A	A	A	B	C					Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68	A	A	A	A	A	A	A			A	40			104				A	A									60	140				B	A					80	176						B	A				B	100			212				C	A					120	248												Cryolite Na ₃ AlF ₆	Pure	20	68			B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A			A	A	A	A	A	40	104	B	B	A			A	A					60	140	B	C	A	A	A					80	176			A	A	A					100	212				A	A	
		40	104	A	A	A	A	A	A	A	A			A			60	140	B	B	B	A	A									80	176						A			A					100			212						A	A							120	248				B						Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A	Cuprous Chloride CuCl	Satu	20	68	A	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A			A			60	140	B	B	A			A	A	A	A	A					A	80	176							B	A	A			A	A	B				100	212				A	A	A				120	248				A	A					Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20	68	X	X	C	A	A	A	A	X	B			40	104	A	A	A	A	A	A	A	A						60			140			A			A	A	A	A	A	A	A		80					176		A	A					A	A	A	A			100	212				A	A	A				120	248				A	A					Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20	68	X	X	A	A	A	A	B	C	40			104	A	A	A	A	A	A	B	A		60	140								A	A		A	A	A			A				A		80	176								A	A							100	212				A	A					120	248				A	A					Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A	X	C	X	40	104	A					A	A	A	A	A	A	A		60			140	A	A							A	A	A			A	A			A		80			176		A	A	A	A	A			B			100	212				A	A	A				120	248				A	A					Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20	68				X	A	A		A	X	X	40	104	A	A	A							A	A	A	B	A		60	140					A	A			A	A	A	A	B					A		80	176			B	A	A	B			C	A		100	212				A	A	B				120	248				A	A					Creosote	Pure	20	68	X	X	A	A	A			A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68						A	A				X	X	40	104						A			A							60	140						A			A							80	176				A						100		212					A						120	248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A			A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)				20	68	A	A		A	A	A					40	104			B					A	A	A				60	140								B	A	B				80	176						B	A					100	212						C	A							120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X				A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68			A	A	A	A	A	A	A	A	40	104								A	A					60	140				B			A							80	176				B			A						B	100	212								C	A					120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A			A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A	A			A	40	104	B	B	A			A	A							60	140	B	C			A	A	A							80	176			A	A	A							100	212				A	A					120	248				A	A															
		60	140	B	B	B	A	A									80	176				A	A									100	212						A			A					120	248						B						Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A	Cuprous Chloride CuCl	Satu	20			68	A	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A	A			60	140	B	B	A	A	A	A	A	A			A			80	176			B			A	A	A	A	B						100	212						A	A	A						120	248				A	A					Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20			68	X	X	C	A	A	A	A	X	B			40	104	A	A	A	A	A	A	A	A				60	140	A	A	A	A	A	A	A	A						80			176				A	A	A	A	A	A			100	212							A	A	A							120	248				A	A					Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40			104	A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A		A		80	176									A		A							100	212				A			A							120			248				A	A					Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104	A	A	A	A	A	A	A	A		60	140	A			A	A	A	A	A	A	A		80	176				A	A	A	A	A					B					100	212								A	A	A				120			248				A	A					Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104	A	A	A	A	A	A	B	A		60	140	A	A	A	A	A			A	B			A		80	176			B	A					A	B			C	A		100	212								A	A	B				120			248				A	A					Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40	104						A	A					60	140						A	A									80	176						A										100	212						A						120	248					A							Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68	A			A		A	A	A			40	104			B					A	A	A				60	140						B	A	B								80	176				B	A									100	212				C	A							120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68	A	A	A			A	A	A	A			A	40	104						A	A							60	140				B	A									80	176				B	A						B	100			212				C	A							120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A			A	A			A	A	A	A	A	40			104	B	B	A			A	A					60	140	B			C	A	A	A									80	176			A	A	A							100	212						A	A					120			248				A	A																														
		80	176				A	A									100	212				A	A									120	248				B								Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A	Cuprous Chloride CuCl	Satu	20			68	A	A	A	A	A	A	A	A	A			40			104	A	A	A	A	A	A	A	A	A			60	140	B	B	A	A	A	A	A	A	A			80	176			B	A	A	A	A	B						100	212						A	A	A				120			248				A			A					Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20			68	X	X	C	A	A	A	A	X	B			40			104	A	A	A	A	A	A	A	A				60	140	A	A	A	A	A	A	A	A				80	176		A	A	A	A	A	A							100			212				A	A	A				120	248						A	A					Corn Oil	Satu			20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40			104			A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A		A		80			176				A	A					100	212					A			A								120	248				A	A					Corn Syrup	Satu			20	68	A			A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104			A	A	A	A	A	A	A	A		60			140	A	A	A	A	A	A	A	A		80	176				A	A	A	A	A	B			100	212				A	A	A								120	248				A			A							Cottonseed Oil	Pure	20	68	A			A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A	B	A		80	176			B	A	A		B	C	A			100	212				A	A	B						120			248				A					A					Creosote	Pure	20	68	X			X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40			104						A	A					60	140						A	A					80	176				A								100	212				A								120			248						A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A		A	X		X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40			104					B	A	A	A				60	140						B	A	B				80	176				B	A					100	212								C	A					120					248										Croton Aldehyde CH ₃ CH=CH·CHO			Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n			Satu	20			68	A	A	A	A	A	A	A	A	40			104				A			A					60	140				B	A							80	176				B	A				B	100	212								C	A					120	248														Cryolite Na ₃ AlF ₆	Pure	20			68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20					68	A	A	A	A	A	A	A	A	40			104	B	B	A	A	A							60	140	B	C	A	A	A							80	176			A	A	A							100	212								A	A					120			248				A			A																																															
		100	212				A	A									120	248				B						Copper Nitrate Cu(NO ₃) ₂			Satu	20	68	A	A	A	A	A	A	A	A	Cuprous Chloride CuCl	Satu	20			68	A	A	A	A	A	A	A	A	A			40			104	A	A	A	A	A	A	A	A	A			60			140	B	B	A	A	A	A	A	A	A			80	176			B	A	A	A	A	B				100	212				A	A	A								120	248				A	A					Copper Sulfate CuSO ₄	Satu	20			68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20			68	X	X	C	A	A	A	A	X	B			40			104	A	A	A	A	A	A	A	A				60			140	A	A	A	A	A	A	A	A				80	176		A	A	A	A	A	A					100	212				A	A	A								120	248				A	A					Corn Oil	Satu	20	68	A	A	A		A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure			20		68	X	X	A	A	A	A	B	C	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A		A		80			176				A	A					100			212				A	A					120	248					A		A					Corn Syrup	Satu			20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O			Pure	20	68	X	X			B	A	A	X	C	X	40			104			A	A	A	A	A	A	A	A		60			140			A	A	A	A	A	A	A	A		80			176		A	A	A	A	A	B			100	212						A	A	A				120	248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A			A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68					X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A	B	A		80			176			B	A	A	B	C	A		100	212				A	A		B					120	248				A	A					Creosote	Pure	20			68	X	X	A	A		A	A		X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68						A	A		X	X	40			104						A	A					60			140						A	A					80	176						A						100	212				A								120	248				A						Cresol C ₆ H ₄ (CH ₃)OH	Pure	20			68	C	X	A	A	A	A			X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A					40			104					B	A	A	A				60			140						B	A	B				80	176						B	A					100	212				C	A					120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20			68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20					68	A	A	A	A	A	A	A	A	40					104						A	A					60			140				B			A					80	176				B	A						B	100	212				C	A					120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A						Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68			A	A	A	A	A	A	A	A	40			104					B	B	A	A	A					60			140	B	C	A	A	A							80	176			A	A	A							100	212				A	A					120	248						A	A																																																																		
		120	248				B								Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A	Cuprous Chloride CuCl		Satu	20		68	A	A	A	A	A	A	A	A	A			40			104	A	A	A	A	A	A	A	A	A			60			140	B	B	A	A	A	A	A	A	A			80			176			B	A	A	A	A	B				100	212				A	A	A						120	248				A	A							Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂			Pure	20	68	X	X	C	A	A	A	A	X	B			40			104	A	A	A	A	A	A	A	A				60			140	A	A	A	A	A	A	A	A				80			176		A	A	A	A	A	A					100	212				A	A	A						120	248				A	A							Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH			Pure	20	68	X	X	A	A	A	A	B	C					40	104	A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A		A		80			176						A	A					100			212				A	A					120			248				A	A					Corn Syrup	Satu	20	68		A	A		A	A	A	A	A			A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A	X	C					X	40	104	A	A	A	A	A	A	A	A		60			140			A	A	A	A	A	A	A	A		80			176				A	A	A	A	A	B			100			212				A	A	A				120	248						A	A					Cottonseed Oil	Pure	20	68	A	A	A	A	A	A			B			A	Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X			X			40	104	A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A	B	A		80			176					B	A	A	B	C	A		100			212				A	A	B				120	248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X			A			Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68				A	A		X			X			40	104				A	A					60			140						A	A					80			176						A						100	212						A						120	248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X			X			DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68	A	A		A	A	A							40	104			B	A	A	A				60			140						B	A	B				80			176						B	A					100	212						C	A					120	248										Croton Aldehyde CH ₃ CH=CH·CHO	Pure			20	68	X		A	A	A	A	B			C			Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68	A	A	A	A	A			A		A	A		40	104				A	A						60		140						B	A					80			176				B			A				B	100	212				C	A							120	248										Cryolite Na ₃ AlF ₆	Pure			20	68	B	B	A	A	A						Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A			A	A	A			A			A	A	40	104	B	B	A	A	A							60	140			B	C	A	A	A					80			176			A	A	A							100	212				A	A							120	248				A	A																																																																															
Copper Nitrate Cu(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A	Cuprous Chloride CuCl	Satu	20			68	A	A	A	A	A	A	A	A	A				40		104	A	A	A	A	A	A	A	A	A			60			140	B	B	A	A	A	A	A	A	A			80			176			B	A	A	A	A	B				100			212				A	A	A						120	248				A	A					Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20			68	X	X	C	A	A	A	A	X	B					40	104	A	A	A	A	A	A	A	A				60			140	A	A	A	A	A	A	A	A				80			176		A	A	A	A	A	A					100			212				A	A	A						120	248				A	A					Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40					104	A	A	A	A	A	A	B	A						60	140	A	A	A	A	A	A		A		80			176						A	A					100			212						A	A					120			248				A	A					Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O			Pure	20	68	X	X	B	A	A	X	C	X			40			104	A	A	A	A	A	A	A	A						60	140	A	A	A	A	A	A	A	A		80			176				A	A	A	A	A	B			100			212						A	A	A				120			248				A	A					Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈			Pure	20	68			X	A	A	A	X	X			40			104	A	A	A	A	A	A	B	A						60	140	A	A	A	A	A	A	B	A		80			176					B	A	A	B	C	A		100			212						A	A	B				120			248				A	A					Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃			Pure	20	68				A	A				X	X	40			104				A	A									60	140				A	A					80			176						A						100			212						A						120	248						A						Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)				20	68	A	A		A	A	A					40			104			B	A	A	A								60	140				B	A	B				80			176						B	A					100			212						C	A					120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B			C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68	A	A	A	A	A	A			A	A	40			104				A	A									60	140				B	A						80		176						B	A				B	100			212				C			A					120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A						Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A			A			A	40	104	B	B	A	A	A									60	140	B	C	A	A	A							80	176					A	A	A					100			212				A	A							120	248				A	A																																																																																												
		40	104	A	A	A	A	A	A	A	A			A			60	140	B	B	A	A	A	A	A	A				A		80	176			B	A	A	A	A	B						100	212				A	A	A								120	248				A	A							Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20	68	X	X	C	A	A	A	A	X	B			40	104	A	A	A	A	A	A	A	A						60	140	A	A	A	A	A	A	A	A						80	176		A	A	A	A	A	A							100	212				A	A	A								120	248				A	A							Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20	68	X	X	A	A	A	A	B	C	40			104	A	A	A	A	A	A	B	A				60			140	A	A	A	A	A	A		A						80	176				A	A									100	212				A	A							120			248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A	X	C	X	40			104	A	A	A	A	A	A	A	A						60	140	A	A	A	A	A	A	A	A						80	176		A	A	A	A	A	B							100	212				A	A	A						120			248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X	X	40			104	A	A	A	A	A	A	B	A						60	140	A	A	A	A	A	A	B	A						80	176			B	A	A	B	C			A				100	212				A	A	B						120			248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68				A	A		X	X	40			104				A	A									60	140				A	A									80	176				A										100	212				A								120			248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68	A	A		A	A	A			40			104			B	A	A	A								60	140				B	A	B								80	176				B	A									100	212				C	A							120			248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68	A	A	A	A	A	A	A	A	40			104				A	A									60	140				B	A									80	176				B	A								B	100	212				C	A							120			248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A	A	A	40			104	B	B	A	A	A									60	140	B	C	A	A	A									80	176			A	A	A									100	212				A	A							120			248				A	A																																																																																																																					
		60	140	B	B	A	A	A	A	A	A			A			80	176			B	A	A	A	A	B						100	212				A	A	A								120	248				A	A							Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20			68	X	X	C	A	A	A	A	X	B			40	104	A	A	A	A	A	A	A	A				60	140	A	A	A	A	A	A	A	A						80	176		A	A	A	A	A	A							100	212				A	A	A								120	248				A	A							Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40			104	A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A		A				80			176				A	A									100	212				A	A									120	248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104	A	A	A	A	A	A	A	A		60			140	A	A	A	A	A	A	A	A						80	176		A	A	A	A	A	B							100	212				A	A	A								120	248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104	A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A	B	A						80	176			B	A	A	B	C	A						100	212				A	A	B								120	248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40			104				A	A					60			140				A	A									80	176				A										100	212				A										120	248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40			104			B	A	A	A				60			140				B	A	B								80	176				B	A									100	212				C	A									120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40			104				A	A					60			140				B	A									80	176				B	A						B			100	212				C	A									120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68	A	A	A	A	A	A	A	A	40			104	B	B	A	A	A					60			140	B	C	A	A	A									80	176			A	A	A									100	212				A	A									120	248				A	A																																																																																																																																				
		80	176			B	A	A	A	A	B						100	212				A	A	A								120	248				A	A							Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20			68	X	X	C	A	A	A	A	X	B			40			104	A	A	A	A	A	A	A	A				60	140	A	A	A	A	A	A	A	A				80	176		A	A	A	A	A	A							100	212				A	A	A								120	248				A	A							Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40			104			A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A		A		80			176				A	A							100			212				A	A									120	248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104			A	A	A	A	A	A	A	A		60			140	A	A	A	A	A	A	A	A		80			176		A	A	A	A	A	B							100	212				A	A	A								120	248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A	B	A		80			176			B	A	A	B	C	A						100	212				A	A	B								120	248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40			104						A	A					60			140				A	A					80			176				A										100	212				A										120	248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40			104					B	A	A	A				60			140				B	A	B				80			176				B	A									100	212				C	A									120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40			104						A	A					60			140				B	A					80			176				B	A						B			100	212				C	A									120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68	A	A	A	A	A	A	A	A	40			104			B	B	A	A	A					60			140	B	C	A	A	A					80			176			A	A	A									100	212				A	A									120	248				A	A																																																																																																																																																			
		100	212				A	A	A								120	248				A	A							Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20			68	X	X	C	A	A	A	A	X	B			40			104	A	A	A	A	A	A	A	A				60			140	A	A	A	A	A	A	A	A				80	176		A	A	A	A	A	A					100	212				A	A	A								120	248				A	A						Corn Oil		Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A		A		80			176				A	A					100			212				A	A							120			248				A	A						Corn Syrup	Satu		20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104			A	A	A	A	A	A	A	A		60			140			A	A	A	A	A	A	A	A		80			176		A	A	A	A	A	B			100			212				A	A	A								120	248				A	A					Cottonseed Oil	Pure			20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A	B	A		80			176			B	A	A	B	C	A		100			212				A	A	B								120	248				A	A					Creosote	Pure			20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40			104						A	A					60			140						A	A					80			176				A						100			212				A										120	248				A						Cresol C ₆ H ₄ (CH ₃)OH	Pure			20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40			104					B	A	A	A				60			140						B	A	B				80			176				B	A					100			212				C	A									120	248										Croton Aldehyde CH ₃ CH=CH·CHO	Pure			20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40			104						A	A					60			140						B	A					80			176				B	A				B	100			212				C	A									120	248										Cryolite Na ₃ AlF ₆	Pure			20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68	A	A	A	A	A	A	A	A	40			104			B	B	A	A	A					60			140			B	C	A	A	A					80			176			A	A	A					100			212				A	A									120	248				A	A																																																																																																																																																																		
		120	248				A	A							Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20			68	X	X	C	A	A	A	A	X	B			40			104	A	A	A	A	A	A	A	A				60			140	A	A	A	A	A	A	A	A				80			176		A	A	A	A	A	A					100	212				A	A	A						120	248				A	A							Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure		20		68	X	X	A	A	A	A	B	C	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A		A		80			176						A	A					100			212				A	A					120			248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure			20	68	X	X	B	A	A	X	C	X	40			104			A	A	A	A	A	A	A	A		60			140			A	A	A	A	A	A	A	A		80			176				A	A	A	A	A	B			100			212				A	A	A				120			248				A	A						Cottonseed Oil	Pure		20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈			Pure	20	68			X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A	B	A		80			176					B	A	A	B	C	A		100			212				A	A	B				120			248				A	A						Creosote	Pure		20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃			Pure	20	68				A	A		X	X	40			104						A	A					60			140						A	A					80			176						A						100			212				A						120			248				A							Cresol C ₆ H ₄ (CH ₃)OH	Pure		20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)				20	68	A	A		A	A	A			40			104					B	A	A	A				60			140						B	A	B				80			176						B	A					100			212				C	A					120			248											Croton Aldehyde CH ₃ CH=CH·CHO	Pure		20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n			Satu	20	68	A	A	A	A	A	A	A	A	40			104						A	A					60			140						B	A					80			176						B	A				B	100			212				C	A					120			248										Cryolite Na ₃ AlF ₆	Pure			20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆				20	68	A	A	A	A	A	A	A	A	40			104			B	B	A	A	A					60			140			B	C	A	A	A					80			176					A	A	A					100			212				A	A					120			248				A	A																																																																																																																																																																																	
Copper Sulfate CuSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexane C ₆ H ₁₂	Pure	20			68	X	X	C	A	A	A	A	X	B			40			104	A	A	A	A	A	A	A	A				60			140	A	A	A	A	A	A	A	A				80			176		A	A	A	A	A	A					100			212				A	A	A						120	248				A	A					Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40				104		A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A		A		80			176						A	A					100			212						A	A					120			248				A	A					Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40					104	A	A	A	A	A	A	A	A		60			140			A	A	A	A	A	A	A	A		80			176				A	A	A	A	A	B			100			212						A	A	A				120			248				A	A					Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure			20	68			X	A	A	A	X	X	40					104	A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A	B	A		80			176					B	A	A	B	C	A		100			212						A	A	B				120			248				A	A					Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure			20	68				A	A		X	X	40					104				A	A					60			140						A	A					80			176						A						100			212						A						120			248				A						Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)				20	68	A	A		A	A	A			40					104			B	A	A	A				60			140						B	A	B				80			176						B	A					100			212						C	A					120			248										Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu			20	68	A	A	A	A	A	A	A	A	40					104				A	A					60			140						B	A					80			176						B	A				B	100			212						C	A					120			248										Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆				20	68	A	A	A	A	A	A	A	A	40					104	B	B	A	A	A					60			140			B	C	A	A	A					80			176					A	A	A					100			212						A	A					120			248				A	A																																																																																																																																																																																														
		40	104	A	A	A	A	A	A	A	A						60	140	A	A	A	A	A	A	A	A						80	176		A	A	A	A	A	A							100	212				A	A	A								120	248				A	A							Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20	68	X	X	A	A	A	A	B	C	40			104	A	A	A	A	A	A	B	A				60			140	A	A	A	A	A	A		A					80		176				A	A							100			212				A	A							120			248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A	X	C	X	40			104	A	A	A	A	A	A	A	A				60			140	A	A	A	A	A	A	A	A						80	176		A	A	A	A	A	B					100			212				A	A	A						120			248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X	X	40			104	A	A	A	A	A	A	B	A						60	140	A	A	A	A	A	A	B	A						80	176			B	A	A	B	C	A				100			212				A	A	B						120			248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68				A	A		X	X	40			104				A	A									60	140				A	A									80	176				A								100			212				A								120			248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68	A	A		A	A	A			40			104			B	A	A	A								60	140				B	A	B								80	176				B	A							100			212				C	A							120			248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68	A	A	A	A	A	A	A	A	40			104				A	A									60	140				B	A									80	176				B	A				B			100			212				C	A							120			248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A	A	A	40			104	B	B	A	A	A									60	140	B	C	A	A	A									80	176			A	A	A							100			212				A	A							120			248				A	A																																																																																																																																																																																																																									
		60	140	A	A	A	A	A	A	A	A						80	176		A	A	A	A	A	A							100	212				A	A	A								120	248				A	A							Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40			104	A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A		A				80			176				A	A								100		212				A	A							120			248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104	A	A	A	A	A	A	A	A		60			140	A	A	A	A	A	A	A	A				80			176		A	A	A	A	A	B							100	212				A	A	A						120			248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104	A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A	B	A						80	176			B	A	A	B	C	A						100	212				A	A	B						120			248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40			104				A	A					60			140				A	A									80	176				A										100	212				A								120			248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40			104			B	A	A	A				60			140				B	A	B								80	176				B	A									100	212				C	A							120			248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40			104				A	A					60			140				B	A									80	176				B	A				B					100	212				C	A							120			248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68	A	A	A	A	A	A	A	A	40			104	B	B	A	A	A					60			140	B	C	A	A	A									80	176			A	A	A									100	212				A	A							120			248				A	A																																																																																																																																																																																																																																								
		80	176		A	A	A	A	A	A							100	212				A	A	A								120	248				A	A							Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40			104			A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A		A		80			176				A	A							100			212				A	A								120		248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104			A	A	A	A	A	A	A	A		60			140	A	A	A	A	A	A	A	A		80			176		A	A	A	A	A	B					100			212				A	A	A								120	248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A	B	A		80			176			B	A	A	B	C	A						100	212				A	A	B								120	248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40			104						A	A					60			140				A	A					80			176				A										100	212				A										120	248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40			104					B	A	A	A				60			140				B	A	B				80			176				B	A									100	212				C	A									120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40			104						A	A					60			140				B	A					80			176				B	A				B					100	212				C	A									120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68	A	A	A	A	A	A	A	A	40			104			B	B	A	A	A					60			140	B	C	A	A	A					80			176			A	A	A									100	212				A	A									120	248				A	A																																																																																																																																																																																																																																																							
		100	212				A	A	A								120	248				A	A							Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A		A		80			176				A	A					100			212				A	A							120			248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104			A	A	A	A	A	A	A	A		60			140			A	A	A	A	A	A	A	A		80			176		A	A	A	A	A	B			100			212				A	A	A						120			248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A	B	A		80			176			B	A	A	B	C	A		100			212				A	A	B								120	248				A	A						Creosote	Pure		20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40			104						A	A					60			140						A	A					80			176				A						100			212				A										120	248				A							Cresol C ₆ H ₄ (CH ₃)OH	Pure		20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40			104					B	A	A	A				60			140						B	A	B				80			176				B	A					100			212				C	A									120	248											Croton Aldehyde CH ₃ CH=CH·CHO	Pure		20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40			104						A	A					60			140						B	A					80			176				B	A				B	100			212				C	A									120	248											Cryolite Na ₃ AlF ₆	Pure		20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68	A	A	A	A	A	A	A	A	40			104			B	B	A	A	A					60			140			B	C	A	A	A					80			176			A	A	A					100			212				A	A									120	248				A	A																																																																																																																																																																																																																																																																						
		120	248				A	A							Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A		A		80			176						A	A					100			212				A	A					120			248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104			A	A	A	A	A	A	A	A		60			140			A	A	A	A	A	A	A	A		80			176				A	A	A	A	A	B			100			212				A	A	A				120			248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A	B	A		80			176					B	A	A	B	C	A		100			212				A	A	B				120			248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure			20	68				A	A		X	X	40			104						A	A					60			140						A	A					80			176						A						100			212				A						120			248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)				20	68	A	A		A	A	A			40			104					B	A	A	A				60			140						B	A	B				80			176						B	A					100			212				C	A					120			248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu			20	68	A	A	A	A	A	A	A	A	40			104						A	A					60			140						B	A					80			176						B	A				B	100			212				C	A					120			248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆				20	68	A	A	A	A	A	A	A	A	40			104			B	B	A	A	A					60			140			B	C	A	A	A					80			176					A	A	A					100			212				A	A					120			248				A	A																																																																																																																																																																																																																																																																																					
Corn Oil	Satu	20	68	A	A	A	A	A	A	B	A	Cyclohexanol C ₆ H ₁₁ OH	Pure	20			68	X	X	A	A	A	A	B	C	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A		A		80			176						A	A					100			212						A	A					120			248				A	A					Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104			A	A	A	A	A	A	A	A		60			140			A	A	A	A	A	A	A	A		80			176				A	A	A	A	A	B			100			212						A	A	A				120			248				A	A					Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140			A	A	A	A	A	A	B	A		80			176					B	A	A	B	C	A		100			212						A	A	B				120			248				A	A					Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40					104				A	A					60			140						A	A					80			176						A						100			212						A						120			248				A						Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40					104			B	A	A	A				60			140						B	A	B				80			176						B	A					100			212						C	A					120			248										Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40					104				A	A					60			140						B	A					80			176						B	A				B	100			212						C	A					120			248										Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68	A	A	A	A	A	A	A	A	40					104	B	B	A	A	A					60			140			B	C	A	A	A					80			176					A	A	A					100			212						A	A					120			248				A	A																																																																																																																																																																																																																																																																																																		
		40	104	A	A	A	A	A	A	B	A						60	140	A	A	A	A	A	A		A						80	176				A	A									100	212				A	A									120	248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A	X	C	X			40	104	A	A	A	A	A	A	A	A						60	140	A	A	A	A	A	A	A	A						80	176		A	A	A	A	A	B							100	212				A	A	A								120	248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X	X			40	104	A	A	A	A	A	A	B	A						60	140	A	A	A	A	A	A	B	A						80	176			B	A	A	B	C	A						100	212				A	A	B								120	248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20	68				A	A		X	X			40	104				A	A									60	140				A	A									80	176				A										100	212				A										120	248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20	68	A	A		A	A	A					40	104			B	A	A	A								60	140				B	A	B								80	176				B	A									100	212				C	A									120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20	68	A	A	A	A	A	A	A	A			40	104				A	A									60	140				B	A									80	176				B	A						B			100	212				C	A									120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20	68	A	A	A	A	A	A	A	A			40	104	B	B	A	A	A									60	140	B	C	A	A	A									80	176			A	A	A									100	212				A	A									120	248				A	A																																																																																																																																																																																																																																																																																																																												
		60	140	A	A	A	A	A	A		A						80	176				A	A									100	212				A	A									120	248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104	A	A	A	A	A	A	A	A				60	140	A	A	A	A	A	A	A	A						80	176		A	A	A	A	A	B							100	212				A	A	A								120	248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104	A	A	A	A	A	A	B	A				60	140	A	A	A	A	A	A	B	A						80	176			B	A	A	B	C	A						100	212				A	A	B								120	248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40			104				A	A							60	140				A	A									80	176				A										100	212				A										120	248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40			104			B	A	A	A						60	140				B	A	B								80	176				B	A									100	212				C	A									120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40			104				A	A							60	140				B	A									80	176				B	A								B	100	212				C	A									120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68	A	A	A	A	A	A	A	A	40			104	B	B	A	A	A							60	140	B	C	A	A	A									80	176			A	A	A									100	212				A	A									120	248				A	A																																																																																																																																																																																																																																																																																																																																											
		80	176				A	A									100	212				A	A									120	248				A	A							Corn Syrup	Satu	20	68	A	A	A	A	A	A	A	A	Cyclohexanone C ₆ H ₁₀ O	Pure	20			68	X	X	B	A	A	X	C	X	40			104			A	A	A	A	A	A	A	A		60			140	A	A	A	A	A	A	A	A				80	176		A	A	A	A	A	B							100	212				A	A	A								120	248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A	B	A				80	176			B	A	A	B	C	A						100	212				A	A	B								120	248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40			104						A	A					60			140				A	A							80	176				A										100	212				A										120	248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40			104					B	A	A	A				60			140				B	A	B						80	176				B	A									100	212				C	A									120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40			104						A	A					60			140				B	A							80	176				B	A						B			100	212				C	A									120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68	A	A	A	A	A	A	A	A	40			104			B	B	A	A	A					60			140	B	C	A	A	A							80	176			A	A	A									100	212				A	A									120	248				A	A																																																																																																																																																																																																																																																																																																																																																										
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		80	176		A	A	A	A	A	B							100	212				A	A	A								120	248				A	A							Cottonseed Oil	Pure	20	68	A	A	A	A	A	A	B	A	Decalin C ₁₀ H ₁₈	Pure	20			68			X	A	A	A	X	X	40			104			A	A	A	A	A	A	B	A		60			140	A	A	A	A	A	A	B	A				80	176			B	A	A	B	C	A						100	212				A	A	B								120	248				A	A							Creosote	Pure	20	68	X	X	A	A	A	A	X	A	Decane CH ₃ (CH ₂) ₈ CH ₃	Pure	20			68				A	A		X	X	40			104						A	A					60			140				A	A							80	176				A										100	212				A										120	248				A								Cresol C ₆ H ₄ (CH ₃)OH	Pure	20	68	C	X	A	A	A	A	X	X	DEHPA (DI-2-Ethyl Hexyl Phosphoric Acid)		20			68	A	A		A	A	A			40			104					B	A	A	A				60			140				B	A	B						80	176				B	A									100	212				C	A									120	248												Croton Aldehyde CH ₃ CH=CH·CHO	Pure	20	68	X		A	A	A	A	B	C	Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	20			68	A	A	A	A	A	A	A	A	40			104						A	A					60			140				B	A							80	176				B	A						B			100	212				C	A									120	248												Cryolite Na ₃ AlF ₆	Pure	20	68	B	B	A	A	A				Dextrose (Glucose) C ₆ H ₁₂ O ₆		20			68	A	A	A	A	A	A	A	A	40			104			B	B	A	A	A					60			140	B	C	A	A	A							80	176			A	A	A									100	212				A	A									120	248				A	A																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE			
		°C	°F											°C	°F											
Diacetone Alcohol (CH ₃) ₂ C(OH)CH ₂ -COCH ₃	Pure	20	68			A	A	A	X	A	X	Diethylene-triamine H ₂ N(CH ₂ CH ₂ NH) ₂ H		20	68	X	X		A	A						
		40	104			B	B	A							40	104				B	A					
		60	140				B	A								60	140				C	A				
		80	176				C	A								80	176				X	A				
		100	212				X	A								100	212									
		120	248													120	248									
Dibenzyl Ether C ₆ H ₅ CH ₂ O-CH ₂ C ₆ H ₅	Pure	20	68				A	A		C	X	Diethylether C ₂ H ₅ OC ₂ H ₅	Pure	20	68	X	X	C	A	A	C	C	C			
		40	104				B	A							40	104			X	B	A					
		60	140				C	A							60	140				C	A					
		80	176				X	A							80	176				X	A					
		100	212					A							100	212					A					
		120	248					A							120	248										
Dibutyl Amine (C ₄ H ₉) ₂ NH	Pure	20	68				A	A				Diglycolic Acid (HO ₂ CCH ₂) ₂ O	Satu	20	68	A	A	A	A	A	A	A	A			
		40	104				C	A						40	104	A		A	A	A						
		60	140				X	A						60	140			A	A	A						
		80	176					A						80	176				A	A						
		100	212											100	212					A						
		120	248											120	248											
Dibutyl Ether (C ₄ H ₉) ₂ O	Pure	20	68	X	X	C	A	A	X	X	B	Diisobutyl Ketone [(CH ₃) ₂ CHCH ₂] ₂ CO	Pure	20	68	X	X	A	A	A	X	X	B			
		40	104				A	A						40	104				A	A						
		60	140				C	A						60	140				B	A						
		80	176				X	A						80	176				X	A						
		100	212											100	212											
		120	248											120	248											
Dibutyl Phthalate C ₆ H ₄ (COOC ₄ H ₉) ₂	Pure	20	68	X		B	A	A	B	A	X	Diisobutylene C ₈ H ₁₆	Pure	20	68	X	X		A	A	A	X	A			
		40	104				B	A						40	104				A	A	A					
		60	140				C	A						60	140				A	A	A					
		80	176					A						80	176				A	A						
		100	212					A						100	212				A	A						
		120	248					A						120	248				A	A						
Dibutyl Sebacate H ₉ C ₄ OO(CH ₂) ₈ -COOC ₄ H ₉	Pure	20	68				A	A	C	C	X	Diisopropyl Ketone [(CH ₃) ₂ CH] ₂ CO	Pure	20	68	X	X		X	A	X	B	X			
		40	104				B	A						40	104											
		60	140				C	A						60	140											
		80	176				X	A						80	176											
		100	212					A						100	212											
		120	248					A						120	248											
Dichloro-acetic Acid Cl ₂ CHCOOH	Pure	20	68	A		B	A	A	X	C	X	Diluent (LIX 84)		20	68	A					A					
		40	104				A	A						40	104	A				A						
		60	140				A	A						60	140											
		80	176				A	A						80	176											
		100	212					A						100	212											
		120	248					A						120	248											
Dichloro-benzene C ₆ H ₄ Cl ₂	Pure	20	68	X			A	A	B	X	X	Dimethyl Acetamide CH ₃ CON(CH ₃) ₂		20	68	X	X	X	X	A						
		40	104				A	A						40	104											
		60	140				A	A						60	140											
		80	176					A						80	176											
		100	212					A						100	212											
		120	248					A						120	248											
Dichloro-ethylene CH ₂ =CCl ₂	Pure	20	68	X			A	A	B	X	X	Dimethyl Amine (CH ₃) ₂ NH	Pure	20	68	X	X	A	B	A	X	C	X			
		40	104				A	A						40	104			B	C	A						
		60	140				A	A						60	140				X	A						
		80	176					A						80	176											
		100	212					A						100	212											
		120	248					A						120	248											
Dichloro-isopropyl Ether Cl-CH ₂ -CH(O-CH(CH ₃)-CH ₂ -Cl)-CH ₂ -Cl	Pure	20	68				A	A				Dimethyl-aniline C ₆ H ₃ (CH ₃) ₂ -(NH ₂)	Pure	20	68	X	X		A			X	X			
		40	104				B	A						40	104				B							
		60	140				C	A						60	140				C							
		80	176				X	A						80	176				X							
		100	212											100	212											
		120	248											120	248											
Diethylamine (C ₂ H ₅) ₂ NH	Pure	20	68	X	X	A	B	A		A	X	Dimethyl Ether (CH ₃) ₂ O		20	68				A	A	X	X	B			
		40	104			B	C	A						40	104											
		60	140				X	A						60	140											
		80	176					A						80	176											
		100	212					A						100	212											
		120	248					A						120	248											

Chemical	Concentration (%)		Compatibility									Chemical	Concentration (%)		Compatibility									
	°C	°F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	°C		°F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE			
Dimethyl-formamide HCON(CH ₃) ₂	Pure	20	68	X	X	A	X	A	A	A	X	Ethyl Acetate CH ₃ COOC ₂ H ₅	Pure	20	68	X	X	B	B	A	X	B	X	
		40	104			A		A						40	104			B	C	A				
		60	140			B		A						60	140			C		A				
		80	176					A						80	176					A				
		100	212					A						100	212					A				
		120	248					A						120	248					A				
Dimethyl Phthalate C ₆ H ₄ (COOCH ₃) ₂	Pure	20	68	X	X	B	B	A	B	B	X	Ethyl Acetoacetate CH ₃ COCH ₂ -COOC ₂ H ₅	Pure	20	68	X	X	X	A	A	X	A	X	
		40	104			B	C	A						40	104				B	A		A		
		60	140				X	A						60	140				C	A				
		80	176											80	176				X	A				
		100	212											100	212					A				
		120	248											120	248					A				
Dimethyl Sulfoxide (DMP) (CH ₃) ₂ SO	Pure	20	68				X	A				Ethyl Acrylate H ₂ C=CH-COOC ₂ H ₅	Pure	20	68	X	X			A	A	X	B	X
		40	104											40	104				B	A				
		60	140											60	140				C	A				
		80	176											80	176				X	A				
		100	212											100	212					A				
		120	248											120	248					A				
Diocetyl Phthalate (DOP) C ₆ H ₄ (COOC ₈ H ₁₇) ₂	Pure	20	68	X	X			A	A	A	B	Ethyl Alcohol C ₂ H ₅ OH	Pure	20	68	A	A	A	A	A	A	A	A	
		40	104				B	A						40	104	A	B	A	A	A	A	A		
		60	140				C	A						60	140	B	B	B	A	A	A	A		
		80	176				X	A						80	176		C	B	A	A	A	A		
		100	212					A						100	212				A	A				
		120	248											120	248				A	A				
Dioxane 	Pure	20	68	X	X	B	C	A	X	X	X	Ethyl Benzene C ₂ H ₅ C ₂ H ₅	Pure	20	68	X	X			A	A	A	X	C
		40	104			C	C	A						40	104				A	A				
		60	140				X	A						60	140				A	A				
		80	176											80	176				A					
		100	212											100	212				A					
		120	248											120	248				A					
Dioxolane 	Pure	20	68	X	X			X	A	X	X	Ethyl Chloride C ₂ H ₅ Cl	Pure	20	68	X	X	C	A	A	A	A	B	
		40	104											40	104			X	A	A	A			
		60	140											60	140				A	A	A			
		80	176											80	176				A	A	B			
		100	212											100	212				A	A				
		120	248											120	248				A	A				
Diphenyl Oxide C ₆ H ₅ OC ₆ H ₅	Satu	20	68	X	X			A	A		X	Ethyl Ether (C ₂ H ₅) ₂ O	Pure	20	68	X	X	C	A	A	C	C	C	
		40	104											40	104			X	B	A				
		60	140											60	140				C	A				
		80	176											80	176				X	A				
		100	212											100	212				A					
		120	248											120	248				A					
Disodium Hydrogen Ortho Phosphate Na ₂ HPO ₄ ·12H ₂ O	Pure	20	68	A	A			A	A			Ethyl Formate HCOOC ₂ H ₅	Pure	20	68					A	A	X	B	X
		40	104	A	A			A	A					40	104				A					
		60	140	A	A			A	A					60	140				A					
		80	176		A			A	A					80	176									
		100	212					A	A					100	212									
		120	248					A	A					120	248									
Epichlorohydrin CH ₂ -CH-CH ₂ Cl 	Pure	20	68	X	X	X	C	A	X	X	X	2-Ethyl Hexanol CH ₃ (CH ₂) ₃ CH (C ₂ H ₅)CH ₂ OH	Pure	20	68					A	A			X
		40	104				X	A						40	104				A	A				
		60	140											60	140				A	A				
		80	176											80	176				B	A				
		100	212											100	212					A				
		120	248											120	248					A				
Ethanolamine (Monoethanolamine) H ₂ NCH ₂ CH ₂ OH	Pure	20	68	X	X			X	A	A	A	Ethyl Mercaptan C ₂ H ₅ -SH	Pure	20	68					A	A	A	A	X
		40	104					A						40	104				A	A	A			
		60	140											60	140				A	A				
		80	176											80	176									
		100	212											100	212									
		120	248											120	248									
Ethers (see Ethyl Ether)	Pure	20	68	X	X	C	A	A	C	C	C	Ethyl Monochloroacetate ClCH ₂ COOC ₂ H ₅	Pure	20	68	C	X	A	A	A	C	A	X	
		40	104			X	B	A						40	104			A	C	A				
		60	140				C	A						60	140			A		A				
		80	176				X	A						80	176					A				
		100	212					A						100	212					A				
		120	248											120	248					A				

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE				
		°C	°F											°C	°F												
Ethyl Oxalate (COOC ₂ H ₅) ₂		20	68				X	A	X	A	X	Ferric Sulfate Fe ₂ (SO ₄) ₃		20	68	A	A	A	A	A	A	A	A	A	A		
		40	104					A							40	104	A	A	A	A	A	A	A	A	A	A	
		60	140					A							60	140	A	A	A	A	A	A	A	A	A	A	
		80	176												80	176		A	A	A	A	A	A	A	A	A	
		100	212												100	212					A	A					
		120	248												120	248					A	A					
Ethylene Bromide CH ₂ Br-CH ₂ Br	Pure	20	68	X	X			A	A	C	B	X	Ferric Sulfide Fe ₂ S ₃		20	68	A	A	A	A	A	A	A	A	A	A	
		40	104					A	A						40	104	A	A	A	A	A	A	A	A	A	A	
		60	140					A	A						60	140	A	A	A	A	A	A	A	A	A	A	
		80	176					A	A						80	176		B	B	A	A	A	A	A	A	B	
		100	212												100	212					A	A					
		120	248												120	248					A	A					
Ethylene Chloride (Ethylene Dichloride) ClCH ₂ CH ₂ Cl		20	68	X	X	B	A	A	A	X	X	Ferric Chloride FeCl ₃	Satu	20	68	A	A	A	A	A	A	A	A	A	A		
		40	104			X	A	A						40	104	A	A	A	A	A	A	A	A	A	A		
		60	140				A	A						60	140	B	A	A	A	A	A	A	A	A	A		
		80	176				A	A						80	176		A	A	A	A	A	A	A	A	B		
		100	212												100	212					A	A	B				
		120	248												120	248					A	A					
Ethylene Chlorohydrin ClCH ₂ -CH ₂ OH	Pure	20	68	X	X	A	B	A	A	X	A	X	Ferrous Hydroxide Fe(OH) ₂	Satu	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104				C	A				40			104	A	A	A	A	A	A	A	A	A	A		
		60	140					A				60			140	A	A	A	A	A	A	A	A	A	A		
		80	176					A				80			176		A	A	A	A	A	A	A	A	B		
		100	212												100	212					A	A	A				
		120	248												120	248					A	A					
Ethylene Diamine NH ₂ CH ₂ CH ₂ NH ₂	Pure	20	68	X	X	B	X	A		A	A	Ferrous Nitrate Fe(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A	A	A		
		40	104					A						40	104	A	A	A	A	A	A	A	A	A	A		
		60	140					A						60	140	A	A	A	A	A	A	A	A	A	A		
		80	176					A						80	176		A	A	A	A	A	A	A	A	B		
		100	212												100	212					A	A	A				
		120	248												120	248					A	A					
Ethylene Glycol HOCH ₂ -CH ₂ OH	Pure	20	68	A	A	A	A	A	A	A	A	Ferrous Sulfate FeSO ₄		20	68	A	A	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A	A	A			A	40	104	A	A	A	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A	A			A	60	140	A	A	A	A	A	A	A	A	A	A	
		80	176		B	A	A	A	A	A	A			A	80	176		A	A	A	A	A	A	A	A	B	
		100	212					A	A	A					100	212					A	A	B				
		120	248					A	A						120	248					A	A					
Ethylene Oxide 	Pure	20	68	X	X		B	A	X	X	X	Fluoboric Acid HBF ₄	Pure	20	68	A	A	A	A	A	A	A	A	A	B		
		40	104				C	A						40	104	A	A	A	A	A	A	A	A				
		60	140					C	A					60	140	B	A	A	A	A	A	A	A				
		80	176				X	A						80	176		B	B	A	A	A	A	B				
		100	212												100	212					A	A					
		120	248												120	248					A	A					
Fatty Acids RCOOH		20	68	A	B	A	A	A	A	X	A	Fluorine Gas F ₂	Wet	20	68	A		X	A	A	A	A					
		40	104	A	B	B	A	A						40	104	B			A	A	A	A					
		60	140	A	B	B	A	A						60	140	X			A	A	B	B					
		80	176			C	A	A						80	176					A							
		100	212				A	A						100	212					A							
		120	248				A	A						120	248					A							
Ferrous Chloride FeCl ₂	Satu	20	68	A	A	A	A	A	A	A	A	Fluorosilicic Acid (Hydrofluoro-silicic Acid) H ₂ SiF ₆	50	20	68	A	A	A	A	A	A	A	A	A			
		40	104	A	A	A	A	A	A	A	A			A	40	104	A	A	A	A	A	A	A	A	A	B	
		60	140	B	A	A	A	A	A	A	A			A	60	140	B	B	A	A	A	A	A	A	A	B	
		80	176		A	A	A	A	A	A	A			B	80	176		C	B	A	A	A	A	B	B		
		100	212				A	A	B						100	212					A	A	A				
		120	248				A	A							120	248					A	A					
Ferric Hydroxide Fe(OH) ₃	Satu	20	68	A	A	A	A	A	A	A	A	Fluor Sulphonic Acid HSO ₄ F	50%	20	68					A	A						
		40	104	A	A	A	A	A	A	A	A			A	40	104					A	A					
		60	140	A	A	A	A	A	A	A	A			A	60	140											
		80	176		A	A	A	A	A	A	A			B	80	176											
		100	212				A	A							100	212											
		120	248				A	A							120	248											
Ferric Nitrate Fe(NO ₃) ₃	Satu	20	68	A	A	A	A	A	A	A	A	Formaldehyde HCHO	35	20	68	A	A	A	A	A	A	A	A	A			
		40	104	A	A	A	A	A	A	A	A			A	40	104	A	A	A	A	A	A	A	A	A		
		60	140	A	A	A	A	A	A	A	A			A	60	140	C	B	A	B	A	A	A				
		80	176		A	B	A	A	A	A	B				80	176			B	X	A	A	A				
		100	212				A	A	A						100	212						A					
		120	248				A	A							120	248						A					

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE		
		°C	°F											°C	°F										
Formaldehyde HCHO	37	20	68	A	A	A	A	A	A	A		Furan <chem>C1=CC=C(O1)</chem>		20	68				C	A	X	X	X		
		40	104	A	A	A	A	A	A	A				40	104				X	A					
		60	140	C	B	A	B	A	A	A	A				60	140									
		80	176			B	X	A	A	A	A				80	176									
		100	212					A							100	212									
		120	248					A							120	248									
Formaldehyde HCHO	50	20	68	A	A	A	A	A	B	A		Furfural <chem>C1=CC=C(O1)C=O</chem>	Pure	20	68	X	X	C	B	A	B	A	A		
		40	104	A	A	A	A	A			40			104			X	B	A	B	A	A			
		60	140	C	B	A	B	A						60	140				C	A	C	A	A		
		80	176			B	X	A						80	176				X	A		B			
		100	212					A						100	212							A			
		120	248					A						120	248							A			
Formic Acid HCOOH	90	20	68	A	A	A	A	A	X	A	X	Furfuryl Alcohol <chem>C1=CC=C(O1)CO</chem>	Pure	20	68	X	X		A	A	X	C	X		
		40	104	B	B	B	A	A		A				40	104				A	A					
		60	140	X	X	X	A	A		A				60	140				B	A					
		80	176				A	A		A				80	176				X	A					
		100	212				B	A						100	212										
		120	248				C	A						120	248										
Freon F-11 CCl3F		20	68	A			A	A	B	C	X	Gallic Acid <chem>C1=CC(O)=C(O)C(O)=C1</chem>		20	68				A	A	A	A			
		40	104	A			A	A			40			104				B	A						
		60	140	A			A	A			60			140				C	A						
		80	176				A	A			80			176				X	A						
		100	212				A	A			100			212							A				
		120	248				A	A			120			248							A				
Freon F-12 CCl2F2		20	68	A			A	A	B	B	C	Gasoline - Regular*		20	68	B		C	A	A	B	X	B		
		40	104	A			A	A			40			104	B		X	A	A	B		B			
		60	140	A			A	A			60			140				A	A	B		B			
		80	176				A	A			80			176				A	A						
		100	212				A	A			100			212							A				
		120	248				A	A			120			248							A				
Freon F-21 CHCl2F		20	68	X			A	A	C	C	X	Gasoline - Sour		20	68	B		C	A	A	B	X	B		
		40	104				A	A	X		40			104	B		X	A	A						
		60	140				A	A			60			140				A	A						
		80	176				A	A			80			176				A	A						
		100	212				A	A			100			212							A				
		120	248				A	A			120			248							A				
Freon F-22 CHClF2		20	68	X			A	A	X	B	X	Gelatin & Glue		20	68	A	A	A	A	A	A	A	A		
		40	104				A	A			40			104	A	A	A	A	A	A	A	A			
		60	140				A	A			60			140	A	A	A	A	A	A	A	A			
		80	176				A	A			80			176			A	A	A	A	A	A			
		100	212				A	A			100			212					A	A	A				
		120	248				A	A			120			248					A	A					
Freon F-113 CClF2-CCl2F		20	68	B			A	A	A	C	B	Glycerol (Glycerine) <chem>C1(O)CC(O)CO1</chem>	Pure	20	68	A	A	A	A	A	A	A	A		
		40	104				A	A			40			104	A	A	A	A	A	A	A				
		60	140				A	A			60			140	A	A	A	A	A	A	A				
		80	176				A	A			80			176			A	A	A	A	A				
		100	212				A	A			100			212					A	A					
		120	248				A	A			120			248					A	A					
Freon F-114 CClF2-CClF2		20	68	B			A	A	A	C	B	Glycolic Acid <chem>OC(=O)CO</chem>	Satu	20	68				A	B	A	A	A		
		40	104				A	A	A		40			104				A	X	A					
		60	140				A	A			60			140				A	X	A					
		80	176				A	A			80			176					X	A					
		100	212				A	A			100			212						A					
		120	248				A	A			120			248						A					
Fructose <chem>C(C(CO)O)O</chem>		20	68	A	A	A	A	A	A	A	A	Glycols (Ethylene Glycol)		20	68	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A	A	40			104	A	A	A	A	A	A	A	A			
		60	140	A	A	A	A	A	A	A	60			140	A	A	A	A	A	A	A	A			
		80	176			A	A	A	A	A	80			176			B	A	A	A	A	A			
		100	212				A	A	A		100			212						A	A	A			
		120	248				A	A			120			248						A	A				
Fruit Juice	Pure	20	68	A		A	A	A	A	A		Heptane <chem>CCCCC(C)C</chem>		20	68	A		A	A	A	A	X	A		
		40	104	A		A	A	A	A	A	40			104	A		B	A	A	A					
		60	140	A		A	A	A	A	A	60			140	B		C	A	A	A					
		80	176			A	A	A	A	A	80			176					A	A					
		100	212				A	A			100			212						A	A				
		120	248				A	A			120			248						A	A				

*For Premium grade Gasoline, a special Buna-N elastomer is recommended over Viton. Consult Chemline.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE		
		°C	°F											°C	°F										
Hexane CH ₃ (CH ₂) ₄ CH ₃		20	68	A	A	A	A	A	A	X	A	Hydrofluoric Acid HF	40	20	68	B	B	A	A	A	A	A	A	A	X
		40	104	B		B	A	A							40	104	C	C	A	A	A	A	A	A	
		60	140			C	A	A							60	140	X	X	A	A	A	A	A	B	
		80	176				A	A							80	176			B	A	A	A	B	C	
		100	212				A	A							100	212				A	A				
		120	248				A	A							120	248				A	A				
Hexyl Alcohol CH ₃ (CH ₂) ₅ OH	Pure	20	68	A	A	A	A	A	A	B	A	Hydrofluoric Acid HF	55	20	68	B	B	A	A	A	A	A	A	A	X
		40	104	A			A	A	A	B	A				40	104	C	X	A	A	A	A	A	B	
		60	140	B			A	A	A	C	B				60	140	X		A	A	A	A	C		
		80	176				B	A	A	X					80	176			B	A	A	B	X		
		100	212					A	A						100	212				A	A				
		120	248					A	B						120	248									
Hydrazine H ₂ N-NH ₂	Pure	20	68	X	X		C	C	A	X	A	Hydrogen H ₂		20	68	A	A	A	A	A	A	A	A		
		40	104			X	C	A						40	104	A	A	A	A	A	A	A	A		
		60	140				X	A						60	140	A	A	A	A	A	A	A	A		
		80	176					A						80	176		A	A	A	A	A	A			
		100	212					A						100	212					A					
		120	248					A						120	248					A					
Hydrobromic HBr	20	20	68	A	A	A	A	A	A	A	C	Hydrogen Fluoride (Anhydrous) HF		20	68				A	A	X	B	X		
		40	104	A	A	A	A	A	A	A	C			40	104				A	A					
		60	140	B	B	A	A	A	A	A	X			60	140				A	A					
		80	176		B	A	A	A	B	B				80	176				A	A					
		100	212				A	A						100	212				A	A					
		120	248				B	A						120	248				A	A					
Hydrobromic Acid HBr	47	20	68	A	A	A	A	A	A	A	C	Hydrogen Peroxide H ₂ O ₂	20	20	68	A	A	A	A	A	A	A	A	X	
		40	104	A	A	A	A	A	A	A	X			40	104	A	A	A	A	A	A	B			
		60	140	B	B	A	A	A						60	140	B	B	A	A	A	A	B			
		80	176		B	A	A	A						80	176		B	B	A	A	A	C			
		100	212				A	A						100	212				A	A					
		120	248				B	A						120	248				A	A					
Hydrochloric Acid HCl	25	20	68	A	A	A	A	A	A	A	C	Hydrogen Peroxide H ₂ O ₂	35	20	68	A	B	A	A	A	A	B	X		
		40	104	A	A	A	A	A	A	A	X			40	104	B	C	B	A	A	A	C			
		60	140	A	A	A	A	A	A	A				60	140	C	X	B	A	A	C	X			
		80	176		A	A	A	A	B	X				80	176			C	A	A					
		100	212				A	A	C					100	212				A	A					
		120	248				B	A						120	248				A	A					
Hydrochloric Acid HCl	*	20	68	A	A	A	A	A	A	B	C	Hydrogen Peroxide H ₂ O ₂	50	20	68	B	C	C	A	A	C	X	X		
		40	104	A	A	A	A	A	B	B	X			40	104	C	X	X	A	A	X				
		60	140	B	A	A	A	A	X	X				60	140				A	A					
		80	176		B	B	A	A						80	176				A	A					
		100	212				A	A						100	212				A	A					
		120	248				C	A						120	248				A	A					
Hydrochloric Acid HCl	*	20	68	A	A	A	A	A	B	C	C	Hydrogen Sulfide Gas H ₂ S	Dry	20	68	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	B	C	X			40	104	A	A	A	A	A	A	A	A		
		60	140	B	B	A	A	A	X	X				60	140	A	A	A	A	A	A	A	A		
		80	176		B	B	A	A						80	176		B	A	A	A	A	B	B		
		100	212				B	A						100	212				A	A					
		120	248				C	A						120	248				A	A					
Hydrocyanic Acid HCN		20	68	A	A	A	A	A	A	A	B	Hydrogen Sulfide (Aqueous) H ₂ S		20	68	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A						40	104	A	A	A	A	A	A	A	A		
		60	140	A	A	A	A	A						60	140	A	A	A	A	A	B	A	A		
		80	176				A	A						80	176		A	A	A	A		A	A		
		100	212				A	A						100	212				A	A					
		120	248				A	A						120	248				A	A					
Hydrofluoric Acid HF	10	20	68	A	A	A	A	A	A	A	X	Hydroiodic Acid HI		20	68	A	A	A	A	A	A	A	A		
		40	104	A	B	A	A	A	A	A				40	104	A	A	A	A	A	A	A	A		
		60	140	C	B	A	A	A	A	A				60	140				A	A					
		80	176		C	A	A	A	A	A				80	176				A	A					
		100	212			B	A	A	A					100	212				A	A					
		120	248											120	248				A	A					
Hydrofluoric Acid HF	30	20	68	A	A	A	A	A	A	A	X	Hydroquinone C ₆ H ₄ (OH) ₂	Satu	20	68	A		A	A	A	A	A	A	B	
		40	104	B	B	A	A	A	A	A				40	104	A		A	A	A	A				
		60	140	C	C	A	A	A	A	A				60	140	A		A	A	A					
		80	176	X	X	B	A	A	B	B				80	176			A	A	A					
		100	212				A	A						100	212				A	A					
		120	248											120	248				A	A					

*Hydrochloric Acid: 20° Baumé = 32%; 23° Baumé (Fuming) = 38% concentration.

**Hydrogen Peroxide: 35% at 55°C Viton = "A"; 40% at 66°C Viton = "B".

Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
			°C	°F										°C	°F										
Hypochlorous Acid HClO	10	20	68	A	A	A	A	A	A	A	A	C	Kerosene		20	68	B		A	A	A	A	A	X	A
		40	104	A	A	B	A	A	A	A	B				40	104	B		C	A	A				
		60	140	A	A		A	A	A	B					60	140	C		X	A	A				
		80	176		B		A	A	B						80	176				A	A				
		100	212				A	A							100	212				A	A				
		120	248				B	A							120	248				B	A				
Iodine I ₂		20	68	C		A	A	A	B	X		Lacquer (Nitroselrouse lacquer)		20	68	X		A	A	A	C	X	X		
		40	104	X		A	A				40			104				A							
		60	140			A	A				60			140				A							
		80	176			A	A				80			176				A							
		100	212				A				100			212				A							
		120	248				A				120			248				A							
Isobutyl Alcohol (CH ₃) ₃ CHCH ₂ OH	Pure	20	68	A		A	A	A	A	A	B	Lactic Acid CH ₃ CH(OH)COOH	25	20	68	A	A	A	A	A	A	A	A		
		40	104	A		A	A	A			40			104	A	A	A	A	A	A	B				
		60	140			A	A				60			140	A	A	A	A	A	A	C				
		80	176				A	A			80			176		B	A	A	A	A	A				
		100	212				A	A			100			212				A	A	A					
		120	248				A	A			120			248				A	A	A					
Iso-octane (CH ₃) ₂ CHCH ₂ CH(CH ₃) ₂		20	68	A		A	A	A	X	A	Lactic Acid CH ₃ CH(OH)COOH	80	20	68	A	A	A	A	A	A	A	A			
		40	104			A	A			40			104	B	A	A	A	A	A	B					
		60	140			A	A			60			140		B	A	A	A	A	C					
		80	176			A	A			80			176			B	A	A	A	A					
		100	212				A	A					100	212				B	A	B					
		120	248				A						120	248				A	A						
Isophorone C ₉ H ₁₄ O	Pure	20	68				A	X	X	X	Lard (Animal Oil)		20	68	A	A	A	A	A	A	A	A			
		40	104				A			40			104				A	A	A	A					
		60	140				A			60			140				A	A	A	A					
		80	176				A			80			176				A	A							
		100	212							100			212				A	A							
		120	248							120			248				A	A							
Isopropyl Acetate (CH ₃) ₂ COOCH(CH ₃) ₂	Pure	20	68				A	X	B	X	Lauric Acid CH ₃ (CH ₂) ₁₀ COOH		20	68	A		A	A	A	A					
		40	104				A			40			104	A		A	A	A							
		60	140				A			60			140			A	A	A							
		80	176				A			80			176				A	A							
		100	212				A			100			212				A	A							
		120	248							120			248				A	A							
Isopropyl Alcohol (CH ₃) ₂ CHOH	Pure	20	68	A	A	A	A	A	A	A	Lauroyl Chloride CH ₃ (CH ₂) ₁₀ COCl	Pure	20	68				A	A						
		40	104	A	A	A	A	A	A	B			40	104				A	A						
		60	140	A	A	A	A	A	A				60	140				A	A						
		80	176				A	A	A				80	176				A	A						
		100	212				A	B					100	212				A	A						
		120	248				A						120	248				A	A						
Isopropyl Chloride (CH ₃) ₂ CHCl		20	68				A	A	X	B	Lead Acetate Pb(CH ₃ COO) ₂	Satu	20	68	A	A	A	A	A	A	A	A			
		40	104				A	A					40	104	A	A	A	A	A	A	A				
		60	140				B	A					60	140	A	A	A	A	A	B	A	A			
		80	176				C	A					80	176		A	A	A	A	B	A	B			
		100	212					A					100	212				A	A						
		120	248										120	248				A	A						
Isopropyl Ether (CH ₃) ₂ CHO -CH(CH ₃) ₂	Pure	20	68				A	A	C	C	B	Lead Chloride PbCl ₂		20	68	A	A	A	A	A	A	A	A		
		40	104				B	A			40			104	A	A	A	A	A	A	A	A			
		60	140				C	A			60			140	A	A	A	A	A	A	A	A			
		80	176				X	A			80			176				A	A	A	A	A			
		100	212								100			212				A	A	A					
		120	248								120			248				A	A						
Jet Fuel JP-4		20	68	A		B	A	A	X	B	Lead Nitrate Pb(NO ₃) ₂	Satu	20	68	A	A	A	A	A	A	A	A			
		40	104	A		X	A	A					40	104	A	A	A	A	A	A	A	A			
		60	140	B			A	A					60	140	A	A	A	A	A	A	A	A			
		80	176				A	A					80	176		A	A	A	A	A	A	A			
		100	212				B	A					100	212				A	A	A					
		120	248					A					120	248				A	A						
Jet Fuel JP-5		20	68	A		B	A	A	X	A	Lead Sulfate PbSO ₄		20	68	A	A	A	A	A	A	A	A			
		40	104	A		X	A	A					40	104	A	A	A	A	A	A	A	A			
		60	140	B			A	A					60	140	A	A	A	A	A	A	A	A			
		80	176				A	A					80	176		A	A	A	A	A	A	A			
		100	212				A	A					100	212				A	A	A					
		120	248				A						120	248				A	A						

Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE		
	°C	°F	°C	°F										°C	°F												
Lemon Oil		20	68				C	A	A	A	C	A	Magnesium Fluoride MgF ₂	Satu	20	68	A	A	A	A	A	A	A	A	A	A	A
		40	104				X	A	A							40	104	A	A	A	A	A	A	A	A	A	
		60	140					A	A							60	140	A	A	A	A	A	A	A	A	A	
		80	176					A	A							80	176			A	A	A	A	A	A	A	
		100	212					A	A							100	212					A	A				
		120	248					A	A							120	248					A	A				
Linoleic Acid CH ₃ (CH=CH-CH ₃) ₃ -(CH ₂) ₇ COOH		20	68	A			B	A	A	A	X	A	Magnesium Hydroxide Mg(OH) ₂	Satu	20	68	A	A	A	A	A	A	A	A	A	A	A
		40	104	A				A	A							40	104	A	A	A	A	A	A	A	A	A	A
		60	140	B				A	A							60	140	A		A	A	A	A	A	A	A	A
		80	176					A	A							80	176			A	A	A	A	A	A	A	A
		100	212					A	A							100	212					B	A	A			
		120	248					A	A							120	248					B	A				
Linoleic Oil		20	68	A				A	A	A			Magnesium Nitrate Mg(NO ₃) ₂		20	68	A	A	A	A	A	A	A	A	A	A	A
		40	104	A				A	A	B						40	104	A	A	A	A	A	A	A	A	A	A
		60	140	B				A	A	X						60	140	A	A	A	A	A	A	A	A	A	A
		80	176					A	A							80	176			A	A	A	A	A	A	A	B
		100	212					A	A							100	212					A	A	A			
		120	248					A	A							120	248					A	A				
Linseed Oil		20	68	A	A	A	A	A	A	A	B	A	Magnesium Sulfate (Epsom Salts) MgSO ₄		20	68	A	A	A	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A							40	104	A	A	A	A	A	A	A	A	A	A
		60	140	A	A	A	A	A								60	140	A	A	A	A	A	A	A	A	A	A
		80	176				B	A	A							80	176			A	A	A	A	A	A	A	A
		100	212					A	A							100	212					A	A	A			
		120	248					A	A							120	248					A	A				
Lithium Bromide LiBr	60	20	68	A			A	A	A	A		A	Maleic Acid HOOC ₂ H ₂ COOH		20	68	A	A	A	A	A	A	A	A	A	B	
		40	104	A			A	A	A	A		A				40	104	A	A	A	A	A	A	A	B	B	
		60	140	A			A	A	A	A		A				60	140	B	A	A	A	A	A	B	B		
		80	176				A	A	A	A		A				80	176			A	A	A	A	B			
		100	212					A	A	A		A				100	212					A	A				
		120	248					A	A							120	248					A	A				
Lithium Chloride LiCl	Satu	20	68	A	A	A	A	A	A	A		A	Malic Acid HOOCCH ₂ CH -(OH)COOH	Satu	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A		A				40	104	A	A	A	A	A	A	A	A	A	A
		60	140	A	A	A	A	A	A	A		A				60	140	A	A	A	A	A	A	B	A	A	
		80	176				A	A	A	A		A				80	176			A	A	A	A		A	B	
		100	212					A	A	A		A				100	212					A	A				
		120	248					B	A							120	248					A	A				
Lithium Hydroxide LiOH		20	68	A			A	A	A	A	A	A	Manganese Chloride MnCl ₂		20	68	A			A	A	A	A	A	A	A	
		40	104	A			A	A	A	A	A					40	104	A			A	A	A	A	A	A	A
		60	140	A			A	A	A	A	A					60	140	B			A	A	A	A	A	A	A
		80	176				A	A	A	A						80	176			B	A	A	A				
		100	212					A	A							100	212					A	A				
		120	248					A	A							120	248					A	A				
Liquor (Gin, Whiskey, etc.)		20	68	A	A	A	A	A	A	A	A	A	Maganese Sulfate MnSO ₄		20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	A					40	104	A	A	A	A	A	A	A	A	A	A
		60	140					A	A	A	A	A				60	140			A	A	A	A	A	A	A	A
		80	176					A	A	A	A	A				80	176			B	A	A	A	A	A	A	A
		100	212					A	A							100	212					A	A	A			
		120	248					A	A							120	248					A	A				
Magnesium Carbonate MgCO ₃		20	68	A	A	A	A	A	A	A	A	A	Mercuric Chloride HgCl ₂		20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	A					40	104	A	A	A	A	A	A	A	A	A	A
		60	140	A	A	A	A	A	A	A	A					60	140	A	A	A	A	A	A	A	A	A	A
		80	176				B	A	A	A	A	A			B	80	176				A	A	A				
		100	212					A	A	A						100	212					A	A				
		120	248					A	A							120	248					A	A				
Magnesium Chloride MgCl ₂	Satu	20	68	A	A	A	A	A	A	A	A	A	Mercuric Cyanide Hg(CN) ₂	Satu	20	68	A			A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	A					40	104	A			A	A	A	A			
		60	140	B	A	A	A	A	A	A	A					60	140	A			A	A	A	A			
		80	176				B	A	A	A	A	A				80	176				A	A	A				
		100	212					A	A	B						100	212					A	A				
		120	248					A	A							120	248					A	A				
Magnesium Citrate Mg ₃ (C ₆ H ₅ O ₇) ₂		20	68	A	A	A	A	A	A	A	A	A	Mercuric Nitrate Hg(NO ₃) ₂		20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	A					40	104	A	A	A	A	A	A	A	A	A	A
		60	140	A	A	A	A	A	A	A	A					60	140	A	A	A	A	A	A	A	A	A	
		80	176				A	A	A	A	A	A			B	80	176				A	A	A				
		100	212					A	A	A						100	212					A	A				
		120	248					A	A							120	248					A	A				

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE			
		°C	°F											°C	°F											
Mercuric Sulfate HgSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Methyl Chloride CH ₃ Cl		20	68	X		C	A	A	C	B	X			
		40	104	A	A	A	A	A	A	A	A			A												
		60	140	A	A	A	A	A	A	A	A			A												
		80	176		A	A	A	A	A	A	A			A												
		100	212				A	A	A																	
		120	248				A	A																		
Mercurous Nitrate Hg ₂ (NO ₃) ₂	Satu	20	68	A		A	A	A	A	A	A	Methyl Chloroform CH ₃ CCl ₃		20	68	X		C	A	A	B	X	X			
		40	104	A			A	A																		
		60	140	A			A	A																		
		80	176				A	A																		
		100	212				A	A																		
		120	248				A	A																		
Mercury Hg		20	68	A	A	A	A	A	A	A	A	Methyl Ethyl Ketone (MEK) CH ₃ -CO-C ₂ H ₅		20	68	X	X		A	X	A	X	B	X		
		40	104	A	A	A	A	A	A	A	A															
		60	140	A	A	A	A	A	A	A	A															
		80	176		A	A	A	A	A	A	A															
		100	212				A	A																		
		120	248				A	A																		
Methane CH ₄		20	68	A	A	A	A	A	A	A	A	Methyl Formate HCOOCH ₃		20	68				A	A	X	B	X			
		40	104	A	A	A	A	A	A	A	A															
		60	140	B	B	B	A	A	A	A	A															
		80	176				A	A	A	B																
		100	212				A	A	B																	
		120	248				A	A																		
Methane Sulfonic Acid CH ₃ SO ₃ H	50	20	68				A	A				Methyl Isobutyl Carbinol (CH ₃) ₂ CHCH ₂ CH(OH)CH ₃		20	68			A	A	A						
		40	104				A	A																		
		60	140				A	A																		
		80	176				A	A																		
		100	212				A	A																		
		120	248				A	A																		
Methyl Acetate CH ₃ COOCH ₃	Pure	20	68	X	X	B	A	A	X	B	X	Methyl Isobutyl Ketone (CH ₃) ₂ CHCH ₂ -COCH ₃		20	68	X	X	A	X	A	X	B	X			
		40	104				B	A		C																
		60	140				C	A																		
		80	176				X	A																		
		100	212				A	A																		
		120	248				A	A																		
Methyl Acrylate CH ₂ CHCOOCH ₃	Pure	20	68				A	A	X	B	X	Methyl Isopropyl Ketone (CH ₃) ₂ CHCOCH ₃		20	68				X	A		X	X			
		40	104				B	A																		
		60	140				C	A																		
		80	176				X	A																		
		100	212				A	A																		
		120	248				A	A																		
Methyl Alcohol CH ₃ OH	Pure	20	68	A	A	A	A	A	B	A	A	Methyl Methacrylate CH ₂ C(CH ₃)-COOCH ₃		20	68				A	A	X	X	X			
		40	104	B	B	A	A	A	B	A	B															
		60	140	B	B	A	A	A	C	A	C															
		80	176			B	A	A	C	B																
		100	212				A	A	C																	
		120	248				A	A																		
Methyl Amine CH ₃ NH ₂		20	68	X	X	B	C	A	A	A	C	Methyl Monochloroacetate ClCH ₂ COOCH ₃	Pure	20	68	C	X	A	A	A	C	A	X			
		40	104				X																			
		60	140				A	A																		
		80	176				A	A																		
		100	212				A	A																		
		120	248				A	A																		
Methyl Bromide CH ₃ Br		20	68	C		X	A	A	A	B	X	Methyl Salicylate C ₆ H ₄ (OH)COOCH ₃		20	68			A	A	A	A	X	X			
		40	104				A	A																		
		60	140				A	A																		
		80	176				A	A																		
		100	212				A	A																		
		120	248				A	A																		
Methyl Cellosolve HOCH ₂ CH ₂ OCH ₃		20	68	A		A	A	A		B		Methylene Bromide CH ₂ Br ₂		20	68				A	A	A	X	X			
		40	104				A	A																		
		60	140				A	A																		
		80	176				A	A																		
		100	212				A	A																		
		120	248				A	A																		

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE				
		°C	°F											°C	°F												
Methylene Chloride CH ₂ Cl ₂	**	20	68	X	X	X	B	A	C	X	X	Nickel Dichloride NiCl ₂	Satu	20	68	A	A	A	A	A	A	A	A	A	A		
		40	104				B	A							40	104	A	A	A	A	A	A	A	A	A	A	
		60	140				X	A							60	140	A	A	A	A	A	A	A	A	A	A	
		80	176												80	176		A	A	A	A	A	A	A	A	A	
		100	212												100	212				A	A	A					
		120	248												120	248				A	A						
Methylene Iodine CH ₂ I ₂		20	68				A	A	A			Nickel Nitrate Ni(NO ₃) ₂	Satu	20	68	A		A	A	A	A	A	A	A			
		40	104				A	A						40	104	A		A	A	A	A	A	A	A	A		
		60	140				A	A						60	140	A		A	A	A	A	A	A	A	A		
		80	176					A							80	176			A	A	A	A	A	A	A	B	
		100	212					A							100	212				A	A	A					
		120	248					A							120	248				A	A						
Monochloroacetic acid ClCH ₂ COOH	50	20	68	A	A	B	A	A	B	C	X	Nickel Sulfate NiSO ₄	Satu	20	68	A	A	A	A	A	A	A	A	A			
		40	104	B	B	B	A	A	X						40	104	A	A	A	A	A	A	A	A	A	A	
		60	140	B	B	X	A	A							60	140	A	A	A	A	A	A	A	A	A	A	
		80	176				A	A							80	176		B	B	A	A	A	A	A	A	A	
		100	212					A							100	212				A	A	B					
		120	248					A							120	248				A	A						
Monochlorobenzene C ₆ H ₅ Cl		20	68	X	X	B	A	A	B	X	X	Nicotine C ₁₀ H ₁₄ N ₂		20	68	A		A	A	A							
		40	104			C	A	A							40	104	A		A	B	A						
		60	140				A	A							60	140	A				A						
		80	176				B	A							80	176					A						
		100	212				B	A							100	212					A						
		120	248												120	248					A						
Monoethanolamine (Ethanolamine) H ₂ NCH ₂ CH ₂ OH		20	68	X	X		X	A		A	A	Nicotinic Acid C ₃ H ₄ NCOOH		20	68	A		A	A	A				A			
		40	104					A							40	104	A		A	A	A						
		60	140												60	140	A		A	A	A						
		80	176												80	176			A	A	A						
		100	212												100	212				A	A						
		120	248												120	248				A	A						
Monomethylaniline C ₆ H ₅ NHCH ₃		20	68				A	A	A	X	X	Nitric Acid HNO ₃	10	20	68	A	A	A	A	A	A	A	A	A	X		
		40	104				B	A							40	104	A	A	A	A	A	A	A	A	A		
		60	140				X	A							60	140	A	A	A	A	A	A	A	A	B		
		80	176					A							80	176		B	B	A	A	A	A	X			
		100	212												100	212				A	A	A					
		120	248												120	248				A	A						
Morpholine O(CH ₂ CH ₂) ₂ NH	Pure	20	68	X	X	A	A	A	A	C	X	Nitric Acid HNO ₃	30	20	68	A	A	A	A	A	A	A	B	X			
		40	104			A	A	A							40	104	A	B	A	A	A	A	A	B			
		60	140			A	C	A							60	140	B	C	B	A	A	B	X				
		80	176					A							80	176		X	B	A	A	C					
		100	212												100	212				A	A	C					
		120	248												120	248				B	A						
Naphtha		20	68	A		A	A	A	A	X	B	Nitric Acid HNO ₃	50	20	68	A	A	A	A	A	A	X	X				
		40	104			B	A	A							40	104	B	B	B	A	A	B					
		60	140			C	A	A							60	140	B	C	C	A	A	C					
		80	176				A	A							80	176		X	X	A	A	X					
		100	212				A	A							100	212				C	A						
		120	248				A	A							120	248				A							
Naphthalene C ₁₀ H ₈		20	68	X		B	A	A	A	X	X	Nitric Acid HNO ₃	70	20	68	A	B	C	A	A	C	X	X				
		40	104				A	A	A						40	104	B	C	X	A	A	X					
		60	140				A	A	A						60	140	C	X		B	A						
		80	176				A	A	A						80	176				C	A						
		100	212				A	A							100	212				X	A						
		120	248				A	A							120	248											
Natural Gas		20	68	A			A	A	A	A	A	Nitric Acid HNO ₃	98	20	68	X	X	X	A	A	C	X	X				
		40	104	A			A	A							40	104				B	B						
		60	140	B			A	A							60	140				X	B						
		80	176				A	A							80	176					C						
		100	212					A							100	212					C						
		120	248					A							120	248											
Nickel Acetate (CH ₃ CO ₂) ₂ Ni	Satu	20	68	A	A	A	A	A	C	A	A	Nitrobenzene C ₆ H ₅ NO ₂		20	68	X	X	A	B	A	B	B	X				
		40	104	A	A	A	A	A							40	104			B	C	A						
		60	140	A	A	A	A	A							60	140			C	X	A						
		80	176		A	A	A	A							80	176					A						
		100	212				A	A							100	212					A						
		120	248				A	A							120	248					A						

**Methylene Chloride: PP & Viton recommended at 1 gm/litre concentration. *When DV Series Diaphragm Valves are used on nitric acid, the PVDF Gas Barrier is always recommended if a Teflon diaphragm.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	
		°C	°F											°C	°F									
Nitroethane CH ₃ CH ₂ NO ₂	Pure	20	68				A	A	X	A	X	Oil - Lubricating (ASTM 2 and 3)		20	68	A		B	A	A	A	X	A	
		40	104					A							40	104	A		C	A	A	A		B
		60	140					A							60	140	A		X	A	A	A		
		80	176					A							80	176				A	A	A		
		100	212												100	212				A	A	B		
		120	248												120	248				A	A			
Nitrogen Dioxide NO ₂		20	68	A		A	A	A	A	A	A	Oil - Sulfonated		20	68	A		A	A	A	A	A	A	
		40	104				A	A						40	104									
		60	140				A	A						60	140									
		80	176				A	A						80	176									
		100	212					A						100	212									
		120	248					A						120	248									
Nitromethane CH ₃ NO ₂	Pure	20	68				A	A		B	X	Oil - Machine, Mineral, Motor		20	68	A		A	A	A	A	X	A	
		40	104				A	A						40	104	A		B	A	A	A		A	
		60	140					A							60	140	A		C	A	A	A		B
		80	176					A							80	176				A	A			
		100	212												100	212				A	A			
		120	248												120	248								
Nitrotoluene C ₆ H ₄ CH ₃ NO ₂	Pure	20	68	X	X	A	A	A	C	X	C	Oil - Petroleum (Crude Oil)		20	68	B		B	A	A	A	X	A	
		40	104			A	A	A			X			40	104				A	A				
		60	140				A	A						60	140				A	A				
		80	176					A						80	176				A	A				
		100	212						A					100	212				A	A				
		120	248												120	248				A	A			
Nitrous Acid HNO ₂	10	20	68			C	A	A	A	B	X	Oleic Acid CH(CH ₂) ₇ CH ₃ CH(CH ₂) ₇ COOH		20	68	A	B	A	A	A	A	X	X	
		40	104			X	A	A						40	104	A	B	A	A	A	A			
		60	140				A	A						60	140	A	B	A	A	A	A			
		80	176				A	A						80	176			A	A	A	A			
		100	212												100	212				A	A	A		
		120	248												120	248				B	A	B		
Nitrous Oxide N ₂ O		20	68	A		A	A	A	A	A		Oleum (fuming sulphuric acid) H ₂ SO ₄ +SO ₃		20	68	X	X	X	X	A	X	X	X	
		40	104	A		A	A	A	A	A				40	104									
		60	140	A		A	A	A	A	A				60	140									
		80	176			A	A	A	A	B				80	176									
		100	212				A	A	B					100	212									
		120	248				B	A	B					120	248									
Octane C ₈ H ₁₈		20	68				A	A	A	X	A	Olive Oil		20	68	A	A	A	A	A	A	B	A	
		40	104				A	A						40	104	A	A	A	A	A	A		A	
		60	140				A	A						60	140	A	A	A	A	A	A		A	
		80	176				A	A						80	176			A	A	A	A		A	
		100	212				A	A						100	212				A	A				
		120	248				A	A						120	248				A	A				
Octene CH ₃ (CH ₂) ₅ CH=CH ₂	Pure	20	68				A	A	A	X	A	Organic Phosphorus Series Insecticide (Sumition®)		20	68	X	X	A	A	A	A	A	C	
		40	104				A	A						40	104			A	A	A	A	A		
		60	140				A	A						60	140			B	A	A	A	A		
		80	176				A	A						80	176				A	A				
		100	212				A	A						100	212				B	A				
		120	248				A	A						120	248				B	A				
Oil - Heavy		20	68	B	B	X	A	A	B	X	B	Oxalic Acid HOCCOOH	20	20	68	A	A	A	A	A	A	B	A	B
		40	104				A	A	A	B	B			40	104	A	A	A	A	A	A			
		60	140				A	A						60	140	A	A	A	A	A				
		80	176					A						80	176			A	A	B	A			
		100	212					A						100	212				C	A				
		120	248					A						120	248					A				
Oil - Light (Incl. Diesel Fuels)		20	68	A		A	A	A	A	X	A	Oxalic Acid HOCCOOH	50	20	68	A	A	A	A	A	A	B	A	B
		40	104				A	A	A					40	104	A	A	A	A	A	A			
		60	140				A	A	A					60	140	A	A	A	B	A				
		80	176				A	A						80	176			A	A	C	A			
		100	212				A	A						100	212					A				
		120	248					A						120	248					A				
Oil - Lubricating (ASTM 1)		20	68	A		B	A	A	A	X	A	Oxygen Gas O ₂		20	68	A	A	A	A	A	A	A	B	
		40	104	A		C	A	A	A		B			40	104	A			A	A	A	A		
		60	140	A		X	A	A	A					60	140	A			A	A	A	A		
		80	176				A	A	A					80	176				A	A	A	A		
		100	212				A	A	A					100	212					A				
		120	248				A	A						120	248					A				

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE			
		°C	°F											°C	°F											
Ozone Gas O ₃	7000 ppm	20	68	X	X	X	B	A			B	Phenylhydrazine Hydrochloride C ₆ H ₈ N ₂ ·HCl	10	20	68	X	X	A	A	A	A	A	A	A	A	X
		40	104					A							40	104				A	A	A	A			
		60	140					A							60	140				A	A					
		80	176												80	176					A					
		100	212												100	212										
		120	248												120	248										
Ozone Solution (Aqueous) O ₃	10 ppm	20	68	A	A	B	A	A	A	A		Phosgene Gas COCl ₂	10	20	68	X	X	X					X		X	
		40	104	A	B	B	A	A	A	A				40	104											
		60	140	B	B		A	A	A	B	B			60	140											
		80	176				A	A						80	176											
		100	212											100	212											
		120	248											120	248											
Ozone Solution (Aqueous) O ₃	0.5 mg/l	20	68	A	B	X	A	A	A	A		Phosphoric Acid H ₃ PO ₄	10	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	B		A	A	A	A				40	104	A	A	A	A	A	A	A	A	A		
		60	140	B			A	A	B	B				60	140	A	A	A	A	A	A	A	A	B		
		80	176				A	A						80	176		B	A	A	A	A	A	A	C		
		100	212											100	212				A	A	A					
		120	248											120	248				A	A						
Palmitic Acid C ₁₅ H ₃₁ COOH	Pure	20	68	A		A	A	A	A	B	A	Phosphoric Acid H ₃ PO ₄	50	20	68	A	A	A	A	A	A	A	A	A		
		40	104			A	A	A						40	104	A	A	A	A	A	A	A	B			
		60	140			A	A	A						60	140	A	B	A	A	A	A	A	C			
		80	176			B	A	A						80	176		C	C	A	A	A	A	X			
		100	212				A	A						100	212				A	A	A					
		120	248				A	A						120	248				A	A						
Paraffin Oil		20	68	A	A	A	A	A	A	X	A	Phosphoric Acid H ₃ PO ₄	85	20	68	A	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A		A			40	104	A	B	A	A	A	A	A	B			
		60	140				A	A	A					60	140	B	B	A	A	A	A	A	X			
		80	176				A	A						80	176		C	B	A	A	A	A				
		100	212				A	A						100	212				A	A	A					
		120	248				A	A						120	248				A	A						
Peanut Oil		20	68	A	A	A	A	A				Phosphorus Oxychloride (Phosphoryl chloride) POCl ₃		20	68	X	X	X	X	B	X	X	X			
		40	104				A	A						40	104					C						
		60	140				A	A						60	140											
		80	176				A	A						80	176											
		100	212				A	A						100	212					A	A					
		120	248				A	A						120	248					A	A					
Perchloro-ethylene Cl ₂ C=CCl ₂	Pure	20	68	X	X	B	A	A	A	X	X	Phosphorus Pentoxide P ₂ O ₅	Pure	20	68	A	A	A	A	A	A					
		40	104			C	A	A	A					40	104				A	A	A	A				
		60	140			X	A	A	B					60	140				A	A	A	A				
		80	176				A	A						80	176				A	A						
		100	212				A	A						100	212				A	A						
		120	248											120	248				A							
Perchloric Acid HClO ₄	10	20	68	A		A	A	A	A	A	X	Phosphorus Red P ₄		20	68	A	A	A	A	A						
		40	104	A		A	A	A	A	A				40	104				A	A						
		60	140	B		B	A	A	A	A				60	140				A	A						
		80	176				A	A						80	176				A	A						
		100	212				A	A						100	212				A	A						
		120	248											120	248				A	A						
Perchloric Acid HClO ₄	70	20	68	B		C	A	A	A	A		Phosphorus Trichloride PCl ₃	Pure	20	68	X	X	X	A	A	B	X	X			
		40	104				A	A	A	A				40	104				A	A						
		60	140				A	A	A	A				60	140				A	A						
		80	176				A	A						80	176				A	A						
		100	212											100	212				A	A						
		120	248											120	248				A							
Phenol C ₆ H ₅ OH	Pure	20	68	A		A	A	A	A	A	X	Phosphorus Yellow P ₄		20	68	A	A	A	A	A						
		40	104	B		A	A	A						40	104				A	A						
		60	140			B	B	A						60	140				A	A						
		80	176			X	B	A						80	176				A	A						
		100	212					A						100	212				A	A						
		120	248					A						120	248				A	A						
Phenylhydrazine C ₆ H ₅ NHNH ₂		20	68	X		C	A	A	X	B	X	Photographic Solutions (Sodium Thiosulfate) Na ₂ S ₂ O ₃		20	68	A	A	A	A	A	A	A	A			
		40	104				A	A						40	104	A	A	A	A	A	A	A				
		60	140				A	A						60	140	A	A	A	A	A	A					
		80	176				B	A						80	176			A	A	A						
		100	212				C	A						100	212				A	A						
		120	248				X	A						120	248				A	A						

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE					
		°C	°F											°C	°F													
Phthalic Acid C ₆ H ₄ (COOH) ₂		20	68	A		A	A	A	A	A	A	Plating Solutions (Zinc)		20	68					A	A	A						
		40	104				A	A						A														
		60	140				A	A						A														
		80	176				A	A						A														
		100	212					B	A						A													
		120	248						A						A													
Picric Acid C ₆ H ₂ (OH)(NO ₂) ₃	10	20	68	A	A	A	A	A	A	A	B	Polyethylene Glycol H(OCH ₂ CH ₂) _n OH		20	68	A	A	A	A	A	A	A	A	A				
		40	104	A	A	A	A	A	A	A	B			A														
		60	140	A	A	A	A	A	A	A	C			A														
		80	176		B	A	A	A	B	B	X																	
		100	212				A	A	C						A													
		120	248					A							A													
Plating Solutions (Brass)		20	68	A	A	A	A	A	A			Poly Aluminium Chloride [Al ₂ (OH) _n Cl _{6-n}] _m		20	68	A	A	A	A	A	A	A	A	A				
		40	104	A	A	A	A	A						A														
		60	140	A	A	A	A	A																				
		80	176		B	A	A	A																				
		100	212				A	A																				
		120	248					B	A																			
Plating Solutions (Cadmium)		20	68	A	A	X	A	A		A		Polyvinyl Acetate [CH ₃ COOCH ₂ =CH ₂] _n		20	68				A	A	A	A	A	A				
		40	104	A	A		A	A						A														
		60	140	A	A		A	A																				
		80	176		B		A	A																				
		100	212				A	A																				
		120	248					A	A																			
Plating Solutions (Chrome)		20	68	A	A	X	A	A				Polyvinyl Alcohol [-CH ₂ -CH(OH)-] _n		20	68	A	A	A	A	A	A	A	A	A				
		40	104	A	A		A	A						A														
		60	140	B	A		A	A																				
		80	176		B		A	A																				
		100	212				A	A																				
		120	248					B	A																			
Plating Solutions (Copper)		20	68	A	A	A	A	A	A	A		Potash (Potassium Carbonate) K ₂ CO ₃		20	68	A	A	A	A	A	A	A	A	A				
		40	104	A	A	A	A	A						A														
		60	140	A	A	A	A	A																				
		80	176		A	A	A	A																				
		100	212				A	A																				
		120	248					A																				
Plating Solutions (Gold)		20	68	A	A	X	A	A		A		Potassium Acetate CH ₃ COOK	Satu	20	68	A	A	A	A	A	A	A	A	A				
		40	104	A	A		A	A						A														
		60	140	A	A		A	A																				
		80	176				A	A																				
		100	212				A	A																				
		120	248					A	A																			
Plating Solutions (Lead)		20	68	A	A	A	A	A	A	A		Potassium Alum K ₂ SO ₄ Al ₂ (SO ₄) ₃	Satu	20	68	A	A	A	A	A	A	A	A	A				
		40	104	A	A	A	A	A						A														
		60	140	A	A	A	A	A																				
		80	176				A	A																				
		100	212				A	A																				
		120	248					A	A																			
Plating Solutions (Rhodium)		20	68	A	A	A	A	A	A	A		Potassium Aluminum Silicate Al ₂ O ₃ ·K ₂ O·6SiO ₂		20	68	A	A	A	A	A	A	A	A	A				
		40	104	A	A	A	A	A						A														
		60	140	A		A	A	A																				
		80	176				A	A																				
		100	212				A	A																				
		120	248					A	A																			
Plating Solutions (Silver)		20	68				A	A	A	A		Potassium Bicarbonate KHCO ₃	Satu	20	68	A	A	A	A	A	A	A	A	A				
		40	104				A	A						A														
		60	140				A	A																				
		80	176					A																				
		100	212					A																				
		120	248					A																				
Plating Solutions (Tin)		20	68	A	A	A	A	A	A	A		Potassium Bichromate K ₂ Cr ₂ O ₇	Satu	20	68	A	A	A	A	A	A	A	A	A				
		40	104	A	A	A	A	A	A	A																		
		60	140	B	B	B	A	A	A	B																		
		80	176				A	A	B																			
		100	212				A	A																				
		120	248					B	A																			

Chemical	Concentration (%)		Temp.									Chemical	Concentration (%)		Temp.								
	°C	°F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	°C		°F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE		
Potassium Bisulfate KHSO ₄	20	68	A	A	A	A	A	A	A	A	Potassium Hydroxide (Caustic Potash) KOH	25	20	68	A	B	A	A	A	X	A	B	
	40	104	A	A	A	A	A	A	A	A		40	104	A	B	A	A	A		A	B		
	60	140	A	A	A	A	A	A	A	A		60	140	A	B	A	B	A		A	C		
	80	176		B	A	A	A	A	A	B		80	176		B	A	C	A		A	X		
	100	212				A	A	A				100	212				X	A					
	120	248				A	A					120	248										
Potassium Borate	20	68	A	A	A	A	A	A	A	A	Potassium Hypochlorite KClO	25	20	68	A	A	A	A	A	A	A	B	
	40	104	A	A	A	A	A	A	A	A		40	104	A	A	A	A	A	A	A	A		
	60	140	A	A	A	A	A	A	A	A		60	140	A		A	A	A	A	A			
	80	176		A	A	A	A	A	A	A		80	176					A					
	100	212				A	A	A				100	212					A					
	120	248				A	A					120	248					A					
Potassium Bromate KBrO ₃	20	68	A	A	A	A	A	A	A	A	Potassium Iodide KI	25	20	68	A	A	A	A	A	A	A	A	
	40	104	A	A	A	A	A	A	A	A		40	104	A	A	A	A	A	A	A	A		
	60	140	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		
	80	176		B	B	A	A					80	176		A	A	A	A	A	A	B		
	100	212				A	A					100	212				A	A	A				
	120	248				A	A					120	248				A	A					
Potassium Bromide KBr	20	68	A	A	A	A	A	A	A	A	Potassium Nitrate KNO ₃	25	20	68	A	A	A	A	A	A	A	A	
	40	104	A	A	A	A	A	A	A	A		40	104	A	A	A	A	A	A	A	A		
	60	140	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A	A	A	A		
	80	176		A	A	A	A	A	A	A		80	176			A	A	A	A	A	B		
	100	212				A	A	A				100	212				A	A	A				
	120	248				B	A					120	248				A	A					
Potassium Chlorate (Aqueous) KClO ₃	20	68	A	A	A	A	A	A	A	C	Potassium Perborate KBO ₃	25	20	68	A	A	A	A	A				
	40	104	A	A	A	A	A	A	A			40	104	A	A	A	A	A					
	60	140	B	A	A	A	A	A				60	140	A	A	A	A	A					
	80	176		B	B	A	A					80	176		A	A	A	A					
	100	212				A	A					100	212				A	A					
	120	248				A	A					120	248				A	A					
Potassium Chloride KCl	20	68	A	A	A	A	A	A	A	A	Potassium Perchlorate KClO ₄	25	20	68	A	A	A	A	A				
	40	104	A	A	A	A	A	A	A	A		40	104	A	A	A	A	A					
	60	140	A	A	A	A	A	A	A	A		60	140	A	A	A	A	A					
	80	176		A	A	A	A	A	A	A		80	176		B	B	A	A					
	100	212				A	A	A				100	212				A	A					
	120	248				A	A					120	248				A	A					
Potassium Chromate K ₂ CrO ₄	20	68	A	A	A	A	A	A	A	A	Potassium Permanganate KMnO ₄	10	20	68	A	A	A	A	A	A	A	C	
	40	104	A	A	A	A	A	A	A	A		40	104	A	A	A	A	A	A	A			
	60	140	B	B	A	A	A	A	A	A		60	140	B	A	A	A	A	A	A			
	80	176		B	B	A	A	A	A	B		80	176		A	B	A	A					
	100	212				A	A	A				100	212				A	A					
	120	248				B	A					120	248				A	A					
Potassium Cyanide KCN	20	68	A	A	A	A	A	A	A	A	Potassium Permanganate KMnO ₄	25	20	68	A	A	A	A	A	A	A	X	
	40	104	A	A	A	A	A	A	A	A		40	104	A	A	A	A	A	A	A			
	60	140	A	A	A	A	A	A	A	A		60	140	B	A	A	A	A	A	A			
	80	176		B	B	A	A	A	A	B		80	176		B	B	A	A					
	100	212				A	A	B				100	212				A	A					
	120	248				A	A					120	248				A	A					
Potassium Ferricyanide K ₃ [Fe(CN) ₆]	20	68	A	A	A	A	A	A	A	A	Potassium Persulfate K ₂ S ₂ O ₈	25	20	68	A	A	A	A	A	A	A	X	
	40	104	A		A	A	A	A	A			40	104	A		A	A	A	A	A			
	60	140	A		A	A	A	A				60	140	A		A	A	A	A	A			
	80	176			A	A	A					80	176				A	A					
	100	212				A	A					100	212				A	A					
	120	248				A	A					120	248				A	A					
Potassium Ferrocyanide K ₄ [Fe(CN) ₆]	20	68	A	A	A	A	A	A	A	A	Potassium Phosphate K ₃ PO ₄	25	20	68	A	A	A	A	A	A	A	A	
	40	104	A		A	A	A	A	A			40	104	A		A	A	A	A	A	C		
	60	140	A		A	A	A	A				60	140	C		A	A	A	A	A	X		
	80	176			A	A	A					80	176			A	A	A	A	A			
	100	212				A	A					100	212				A	A	A				
	120	248				A	A					120	248				A	A					
Potassium Fluoride KF	20	68	A	A	A	A	A	A	A	A	Potassium Sulfate K ₂ SO ₄	Pure	20	68	A	A	A	A	A	A	A	A	
	40	104	A		A	A	A	A	A			40	104	A	A	A	A	A	A	A	A		
	60	140	A		A	A	A	A	A			60	140	A	A	A	A	A	A	A	A		
	80	176			A	A	A	A	A	B		80	176		A	A	A	A	A	B			
	100	212				A	A	A				100	212				A	A	A				
	120	248				A	A					120	248				A	A	B				

Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	
			°C	°F										°C	°F											
Potassium Sulfide K ₂ S			20	68	A	A	A	A	A	A	A		Radium Chloride RaCl ₂			20	68	A		A	A	A	A	A	A	X
			40	104	A	A	A	A	A	A	A					40	104			A	A	A	A	A		
			60	140	A	A	A	A	A	A	A					60	140			A	A	A	A	A		
			80	176			A	A	A	A						80	176				A	A				
			100	212				A	A	A						100	212					A	A			
			120	248				A	A							120	248									
Potassium Sulfite K ₂ SO ₃			20	68	A	A	A	A	A	A	A	A	Rhodium Chloride RhCl ₃			20	68	A		A	A	A	A	A	A	
			40	104	A	A	A	A	A	A	A	A				40	104			A	A	A	A	A		
			60	140	A	A	A	A	A	A	A	A				60	140				A	A	A	A		
			80	176				A	A							80	176					A	A			
			100	212				A	A							100	212						A			
			120	248												120	248									
Potassium Thiocyanate KSCN			20	68	A	A	A	A	A	A	C	A	Salicylaldehyde C ₆ H ₄ OHCHO			20	68				A	A	A	A	A	
			40	104	A	A	A	A	A	A						40	104				A	A	A	A		
			60	140	A	A	A	A	A	A						60	140					B	A			
			80	176				A	A	A						80	176						C	A		
			100	212				A	A							100	212						X	A		
			120	248				A	A							120	248									
Propane CH ₃ CH ₂ CH ₃			20	68	A	A	A	A	A	A	X	A	Salicylic Acid C ₆ H ₄ OHCO ₂ H			20	68	A			A	A	A	A	A	
			40	104			A	A	A			40				104	A				A	A	A	A		
			60	140			B	A	A			60				140	A				A	A	A	A		
			80	176				A	A			80				176					A	A	A			
			100	212				A	A			100				212						B	A			
			120	248				A	A			120				248							A			
Propionic Acid CH ₃ CH ₂ COOH	50		20	68	A		A	A	A	X	B	B	Selenous Acid			20	68					A	A			
			40	104	A		A	A	A			40				104										
			60	140			A	A	A			60				140										
			80	176				A	A			80				176										
			100	212				A	A			100				212										
			120	248												120	248									
Propyl Acetate CH ₃ CO ₂ C ₃ H ₇	Pure		20	68				A	A	X	B	X	Silicic Acid SiO ₃ ·nH ₂ O			20	68	A	A	A	A	A	A	A	A	
			40	104				B	A			40				104	A	A	A	A	A	A	A	A		
			60	140				C	A			60				140	A	A	A	A	A	A	A	A		
			80	176				X	A			80				176			A	A	A	A	A	A		
			100	212								100				212					A	A	A			
			120	248								120				248					A	A				
Propyl Alcohol C ₃ H ₇ OH	Pure		20	68	A	A	A	A	A	A	A	B	Silicone Oil			20	68	A	A	A	A	A	A	A	A	
			40	104	A	A	A	A	A	A	A	A				40	104	A	A	A	A	A	A	A	A	
			60	140	B	A	A	A	A	A	A	C					60	140	A	A	A	A	A	A	A	
			80	176		B	B	B	A	A	A	X					80	176			A	A	A	A		
			100	212				C	A	A						100	212					A	A			
			120	248												120	248					A	A			
Propyl Nitrate C ₃ H ₇ NO ₃			20	68				A	A	X	B		Silver Acetate CH ₃ COOAg			20	68	A		A	A	A	A	A		
			40	104				A				40				104				A	A	A				
			60	140				A				60				140					A	A	A			
			80	176				A				80				176					A	A				
			100	212								100				212						A	A			
			120	248								120				248						A	A			
Propylene Dichloride CH ₃ CHClCH ₂ Cl	Pure		20	68	X	X	X	A	A	B	X	X	Silver Chloride AgCl			20	68	A	A	A	A	A	A	A	A	
			40	104				A	A			40				104	A	A	A	A	A	A	A	A		
			60	140				B	A			60				140	A	A	A	A	A	A	A			
			80	176				B	A			80				176				A	A	A	A			
			100	212								100				212					A	A	A			
			120	248								120				248					A	A				
Propylene Oxide CH ₃ CHCH ₂ O			20	68	X	X		C	A	X	X	X	Silver Cyanide AgCN			20	68	A	A	A	A	A	A	A	A	
			40	104				X	A			40				104	A	A	A	A	A	A	A	A		
			60	140					A			60				140	A	A	A	A	A	A	A	A		
			80	176								80				176			A	A	A	A				
			100	212								100				212					A	A				
			120	248								120				248					A	A				
Pyridine C ₅ H ₅ N			20	68	X	X	A	C	A	X	B	X	Silver Nitrate AgNO ₃			20	68	A	A	A	A	A	A	A	A	
			40	104			A	C	A		C					40	104	A	A	A	A	A	A	A	A	
			60	140			B	X	A		X					60	140	A	A	A	A	A	A	A	A	
			80	176					A							80	176				A	A	A	A	B	
			100	212												100	212					A	A			
			120	248												120	248					A	A			

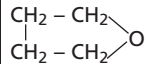
Chemical	Concentration (%)		Temp.									Chemical	Concentration (%)		Temp.								
	°C	°F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	°C		°F	PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE		
Silver Sulfate Ag ₂ SO ₄	Satu	20	68	A	A	A	A	A	A	A	A	Sodium Chlorate NaClO ₃	Satu	20	68	A	A	A	A	A	A	A	C
		40	104	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A	A		
		60	140	A	A	A	A	A	A	A	A			60	140	A	B	B	A	A	A	A	
		80	176		A	A	A	A	A	A	A			80	176		B	B	A	A	B	A	
		100	212				A	A	A					100	212				A	A	B		
		120	248				A	A						120	248				A	A			
Sodium Acetate CH ₃ COONa	Satu	20	68	A	A	A	A	A	A	A	Sodium Chloride (Brine) NaCl	Satu	20	68	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A		A				40	104	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A		A				60	140	A	A	A	A	A	A	A	
		80	176		A	A	A	A		A				80	176		A	A	A	A	A	A	
		100	212				A	A						100	212				A	A	A		
		120	248				A	A						120	248								
Sodium Alum NaAl(SO ₄) ₂ ·12H ₂ O	Satu	20	68	A	A	A	A	A	A	A	Sodium Chlorite NaClO ₂	25	20	68	X	X		A	A	B	B	X	
		40	104	A	A	A	A	A	A	A				40	104				B	B			
		60	140	A	A	A	A	A	A	A				60	140								
		80	176		A	A	A	A	A	A			B	80	176								
		100	212				A	A	A					100	212								
		120	248				A	A						120	248								
Sodium Benzoate C ₆ H ₅ COONa	Satu	20	68	A	A	A	A	A	A	A	Sodium Cyanide (Aqueous) NaCN	Satu	20	68	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A						40	104	A	A	A	A	A	A		
		60	140	A	A	A	A	A						60	140	A	A	A	A	A	A		
		80	176			A	A	A						80	176		B	B	A	A	A	A	
		100	212				A	A						100	212				A	A	B		
		120	248				A	A						120	248				A	A			
Sodium Bicarbonate NaHCO ₃	Satu	20	68	A	A	A	A	A	A	A	Sodium Dithionite Na ₂ S ₂ O ₄	10	20	68	A		A	A	A	A	A	X	
		40	104	A	A	A	A	A	A	A				40	104	A		A	A	A	A		
		60	140	A	A	A	A	A	A	A				60	140			A	A	A	A		
		80	176			A	A	A	A					80	176					A			
		100	212				A	A	A					100	212					A			
		120	248				A	A						120	248								
Sodium Bichromate Na ₂ Cr ₂ O ₇	Satu	20	68	A	A	A	A	A	A	A	Sodium Ferricyanide Na ₃ [Fe(CN) ₆]·H ₂ O	Satu	20	68	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A				40	104	A	A	A	A	A	A		
		60	140	A	A	B	A	A	A	A			A	60	140	A	A	A	A	A	A		
		80	176		B	B	A	A	A	A			B	80	176		B	B	A	A			
		100	212				A	A	A					100	212				A	A			
		120	248				A	A						120	248				A	A			
Sodium Bisulfate NaHSO ₄	Satu	20	68	A	A	A	A	A	A	A	Sodium Ferrocyanide Na ₄ [Fe(CN) ₆]·10H ₂ O	Satu	20	68	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A				40	104	A	A	A	A	A	A		
		60	140	A	A	A	A	A	A	A			A	60	140	A	A	A	A	A	A		
		80	176		B	B	A	A	A	A				80	176		B	B	A	A			
		100	212				A	A	A					100	212				A	A			
		120	248				A	A						120	248				A	A			
Sodium Bisulfite NaHSO ₃	Satu	20	68	A	A	A	A	A	A	A	Sodium Fluoride NaF	Satu	20	68	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A				40	104	A	A	A	A	A	A		
		60	140	A	A	A	A	A	A	A			A	60	140	A	A	A	A	A	A		
		80	176		B	B	A	A	A	A				80	176				A	A	A		
		100	212				A	A	A					100	212				A	A	A		
		120	248				A	A						120	248				A	A			
Sodium Bromate NaBrO ₃	Satu	20	68	A		A	A	A	A	X	Sodium Hydroxide (Caustic Soda) NaOH	10	20	68	A	C	A	B	A	C	A	A	
		40	104				A	A	A					40	104	A	X	A	B	A	C	A	A
		60	140				A	A	A					60	140	A	X	A	B	A	X	A	A
		80	176				A	A	A					80	176		X	B	C	A		A	A
		100	212				A	A						100	212				C	A			
		120	248				A	A						120	248				A				
Sodium Bromide NaBr	Satu	20	68	A	A	A	A	A	A	A	Sodium Hydroxide (Caustic Soda) NaOH	15	20	68	A	B	A	A	A	C	A	A	
		40	104	A	A	A	A	A	A	A				40	104	A	C	A	A	A	C	A	A
		60	140	A	A	A	A	A	A	A				60	140	A	C	A	B	A	X	A	A
		80	176		A	A	A	A						80	176		X	B	C	A		A	A
		100	212				A	A						100	212				X	A			
		120	248				A	A						120	248					A			
Sodium Carbonate Na ₂ CO ₃	Satu	20	68	A	A	A	A	A	A	A	Sodium Hydroxide (Caustic Soda) NaOH	30	20	68	A	B	A	A	A	C	A	A	
		40	104	A	A	A	A	A	A	A				40	104	A	B	A	A	A	X	A	A
		60	140	A	A	A	A	A	A	A				60	140	A	C	A	B	A		A	A
		80	176		A	A	A	A	A					80	176		X	A	C	A		A	A
		100	212				A	A	A					100	212				X	A			
		120	248				A	A						120	248					A			

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM		Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE		
		°C	°F											°C	°F										
Sodium Hydroxide (Caustic Soda) NaOH	50	20	68	A	B	A	A	A	X	A	CPE	Sodium Perborate NaBO ₃ ·4H ₂ O		20	68			A	A	A	A	A	A	A	A
		40	104	A	B	A	B	A		A					40	104			A	A	A	A	A	A	A
		60	140	A	C	A	C	A		A					60	140			A	A	A	A	A	A	A
		80	176		X	A	X	A		A					80	176			A	A	A	A	A	A	
		100	212					A							100	212					A	A			
		120	248					A							120	248					A	A			
Sodium Hypochlorite (Bleach) NaOCl	3	20	68	A	A	B	A*	A	A	B	A	Sodium Perchlorate NaClO ₄		20	68	A	A	A	A	A	A	A	A	A	A
		40	104	A	A	B	A*	A	B	B	A			40	104	A	A	A	A	A	A	A	A		
		60	140	B	B	B	A*	A	C	C	A			60	140	B	B	A	A	A	A	A			
		80	176								B			80	176		B	B	A	A	A				
		100	212											100	212					A	A				
		120	248											120	248					A	A				
Sodium Hypochlorite (Bleach) NaOCl	5	20	68	A	A	B	A*	A	A	B	A	Sodium Peroxide Na ₂ O ₂		20	68	A	A	A	A	A	A	A	A	A	B
		40	104	A	A	B	A*	A	B	B	A			40	104	A	A	A	A	A	A	A	A	A	
		60	140	B	B	C	B*	A	C	C	A			60	140	B	B	A	A	A	A				
		80	176								B			80	176		B	A	A	A	A				
		100	212											100	212					A	A				
		120	248											120	248					A	A				
Sodium Hypochlorite (Bleach) NaOCl	7	20	68	A	A	B	A*	A	A	B	A	Sodium Persulfate Na ₂ S ₂ O ₈	Satu	20	68	A	A	A	A	A	A	A	X		
		40	104	A	A	C	A*	A	B	C	A			40	104	A		A	A	A	A	A			
		60	140	B	B	C	B*	A	C	C	B			60	140	B		A	A	A	A	A			
		80	176								C			80	176				A	A	A	A			
		100	212								X			100	212				A	A	A				
		120	248											120	248				A	A	A				
Sodium Hypochlorite (Bleach) NaOCl	10	20	68	A	A	B	A*	A	A	X	A	Sodium Phosphate (Acidic) Na ₃ PO ₄		20	68	A	A	A	A	A	A	A	A	A	
		40	104	A	A	C	A*	A			B			40	104	A	A	A	A	A	A	A	A	A	
		60	140	B	B	C	B*	A			B			60	140	A	A	A	A	A	A	A	A	A	
		80	176								C			80	176		B		A	A	A	A	A		
		100	212								X			100	212					A	A	A			
		120	248											120	248					A	A				
Sodium Hypochlorite (Bleach) NaOCl	13	20	68	A	A	B	A*	A	A	X	A	Sodium Phosphate (Alkaline) Na ₃ PO ₄		20	68	A	A	A	A	A	A	A	A	A	
		40	104	A	A	C	A*	A			B			40	104	A	A	A	A	A	A	A	A	A	
		60	140	B	B		B*	A			C			60	140	A	A	A	A	A	A	A	A	A	
		80	176								X			80	176		B	A	A	A	A	A	A		
		100	212											100	212					A	A	A			
		120	248											120	248					A	A				
Sodium Iodide NaI		20	68	A		A	A	A	A	A	NITRILE	Sodium Phosphate (Neutral) Na ₃ PO ₄		20	68	A	A	A	A	A	A	A	A	A	
		40	104	A		A	A	A	A	A				40	104	A	A	A	A	A	A	A	A	A	
		60	140				B	A	A	A				60	140	A	A	A	A	A	A	A	A	A	
		80	176					A						80	176		B	A	A	A	A	A	A	A	
		100	212											100	212					A	A	A			
		120	248											120	248					A	A				
Sodium Metasilicate Na ₂ SiO ₃		20	68	A	A	A	A	A	A	A		Sodium Silicofluoride Na ₂ SiF ₆		20	68	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A	A				40	104	A	A	A	A	A	A	A	A		
		60	140	A	A	A	A	A	A	A				60	140	B	A	A	A	A	A	A	A		
		80	176		A	A	A	A	A	A				80	176			A	A	A					
		100	212				A	A	A					100	212					A	A				
		120	248				A	A						120	248					B	A				
Sodium Nitrate NaNO ₃	Satu	20	68	A	A	A	A	A	A	A		Sodium Sulfate Na ₂ SO ₄	Satu	20	68	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A	A				40	104	A	A	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A				60	140	A	A	A	A	A	A	A	A	A	
		80	176		A	A	A	A	A	B				80	176		A	A	A	A	A	A	A	B	
		100	212				A	A	A					100	212					A	A	A			
		120	248				A	A						120	248					A	A				
Sodium Nitrite NaNO ₂	Satu	20	68	A	A	A	A	A	A	A		Sodium Sulfide Na ₂ S		20	68	A	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A				40	104	A	A	A	A	A	A	A	A	A	
		60	140	B	B	A	A	A	A	A				60	140	A	A	A	A	A	A	A	A	A	
		80	176		B	A	A	A	A	B				80	176		A	A	A	A	A	A	A	B	
		100	212				A	A	A					100	212					A	A	B			
		120	248				A	A						120	248					A	A				
Sodium Palmitate Na(C ₁₅ H ₃₁ COO)	5	20	68			A	A	A				Sodium Sulfite Na ₂ SO ₃		20	68	A	A	A	A	A	A	A	A		
		40	104				A	A						40	104	A	A	A	A	A	A	A	A		
		60	140				A	A						60	140	A	A	A	A	A	A	A	A		
		80	176				A	A						80	176		A	A	A	A	B	B			
		100	212				A	A						100	212					A	A				
		120	248				A	A						120	248					A	A				

* Moulded PVDF material is suitable for Sodium Hypochlorite; however, fusion welded joints may fail prematurely.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE			
		°C	°F											°C	°F											
Sodium Thiocyanate NaSCN		20	68	A	A	A	A	A	A	A	A	Sulfur Chloride S ₂ Cl ₂		20	68			C	A	A	A	A	X	X		
		40	104	A	A	A	A	A	A	A	A				X	A	A									
		60	140	A	A	A	A	A	A	A	A															
		80	176					A	A	A																
		100	212					A	A																	
		120	248					B	A																	
Sodium Thiosulfate (Photographic Solutions)		20	68	A	A	A	A	A	A	A	A	Sulfur Dichloride SCl ₂		20	68			C	A	A	A	A	X	X		
		40	104	A	A	A	A	A	A	A	A				X	A	A									
		60	140	A	A	A	A	A	A	A	A															
		80	176		B	A	A	A	A	A	B			C												
		100	212					A	A	A	B			C												
		120	248					A	A																	
Soybean Oil		20	68	A	A	A	A	A	A	A	A	Sulfur Dioxide Gas SO ₂	Dry	20	68	A	A	A	A	A	A	A	A			
		40	104	A	A	A	A	A	A	A	A															
		60	140	A	A	A	A	A	A	A	A															
		80	176		B	B	A	A	A						B											
		100	212					A	A																	
		120	248					A	A																	
Stannic Chloride (Tin (IV) Chloride) SnCl ₄		20	68	A	A	A	A	A	A	A	A	Sulfur Dioxide Gas SO ₂	Wet	20	68	A	A	A	A	A	A	A	A			
		40	104	A	A	A	A	A	A	A	A															
		60	140	A	A	A	A	A	A	A	A															
		80	176		B	B	A	A	A						A											
		100	212					A	A																	
		120	248					A	A																	
Stannous Chloride (Tin (II) Chloride) SnCl ₂		20	68	A	A	A	A	A	A	A	A	Sulfur Trioxide SO ₃		20	68	X	X	X	X	B	X	X	X			
		40	104	A	A	A	A	A	A	A	A															
		60	140	A	A	A	A	A	A	A	A															
		80	176		B	B	A	A	A																	
		100	212					A	A																	
		120	248					A	A																	
Stearic Acid CH ₃ (CH ₂) ₁₆ COOH		20	68	A	A	A	A	A	A	B	A	Sulfuric Acid H ₂ SO ₄	10	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	A	B	A	A	A																	
		60	140	A	A	B	A	A	B																	
		80	176		B		A	A	C						B											
		100	212					A	A																	
		120	248					A	A																	
Styrene C ₆ H ₅ CH=CH ₂		20	68				A	A	A	X	C	Sulfuric Acid H ₂ SO ₄	30	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104					A																		
		60	140					A																		
		80	176					A																		
		100	212					A																		
		120	248					A																		
Succinic Acid HOOC(CH ₂) ₂ COOH		20	68	A	A	A	A	A	A	A	A	Sulfuric Acid H ₂ SO ₄	50	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	A				B											
		60	140	A	A	A	A	A	A	A	A			A	B											
		80	176		B	B	A	A	A						C											
		100	212					A	A																	
		120	248					B	A																	
Sugar Liquors		20	68	A	A	A	A	A	A	A	A	Sulfuric Acid H ₂ SO ₄	60	20	68	A	A	A	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	A				B											
		60	140	A	A	A	A	A	A	A	A			A	B											
		80	176		A	A	A	A	A						C											
		100	212					A	A																	
		120	248					A	A																	
Sulfamic Acid HOSO ₂ NH ₂	20	20	68	A	A	A	A	A	A			Sulfuric Acid H ₂ SO ₄	70	20	68	A	A	A	A	A	A	A	A	A	B	
		40	104	A	A	A	A	A							B											
		60	140			A	A	A							B											
		80	176				A	A							X											
		100	212					A	A																	
		120	248					A																		
Sulfur S	Pure	20	68	A	A		A	A	A	C	X	Sulfuric Acid H ₂ SO ₄	80	20	68	A	A	A	A	A	A	A	A	B		
		40	104	A	A		A							B												
		60	140	B	B			A						C												
		80	176		B			A						X												
		100	212					A																		
		120	248					A																		

Sulfuric Acid at 90°C: up to 50% – PP rated “A”, EPDM rated “B”; 51-93% – PP rated “C”.

Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)		Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE			
			°C	°F										°C	°F													
Sulfuric Acid H ₂ SO ₄	90	20	68	A	A	A	A	A	A	A	B	C	Tartaric Acid (Dioxysuccinic Acid) CH(OH) COOH CH(OH) COOH	Pure	20	68	A		A	A	A	A	A	A	A	A		
		40	104	B	A	A	A	A	A	A	A	B			C	40	104	A		A	A	A	A	A	A	A	A	
		60	140	B	B	B	A	A	A	A	A	C			C	60	140	A		A	A	A	A	A	A	B	A	
		80	176			C	B	A	A	B	X	X			X	80	176			B	A	A	A	A				B
		100	212						B	A	C					100	212					A	A					
		120	248					X	B	X						120	248					A	A					
Sulfuric Acid H ₂ SO ₄	93	20	68	A	A	A	A	A	A	A	B	C	Tertiary Butyl Alcohol (CH ₃) ₃ C(OH)	Pure	20	68	A	A	A	A	A	A	A		B	X		
		40	104	B	B	A	A	A	A	B	X				40	104				A	A							
		60	140	B	B	B	A	A	A	B	C				60	140				A	A							
		80	176			C	B	A	A	B	X				80	176					A	A						
		100	212					C	B	A	X				100	212							A					
		120	248					X	B						120	248							A					
Sulfuric Acid H ₂ SO ₄	94	20	68	A	A	B	A	A	A	C	X	X	Tetrachloroethane Cl ₂ CHCHCl ₂	Pure	20	68	X		B	A	A	A		X	X			
		40	104	B	B	B	A	A	B	X		40			104				A	A								
		60	140	B	C	B	A	A	C						60	140				A	A							
		80	176			C	B	A	C						80	176					A	A						
		100	212					C	A						100	212							A					
		120	248					X	B						120	248							A					
Sulfuric Acid H ₂ SO ₄	95	20	68	A	A	C	A	A	A	X	X		Tetraethyl Lead Pb(C ₂ H ₅) ₄	Pure	20	68	A		A	A	A	A	X	B				
		40	104	B	B		A	A	C			40			104				A	A	A							
		60	140	C	C		A	A	C						60	140				A	A	A						
		80	176				B	A							80	176				A	A	B						
		100	212					C	A						100	212						A	A					
		120	248					X	B						120	248						A	A					
Sulfuric Acid H ₂ SO ₄	* 96	20	68	A	B	X	A	A	B	X	X		Tetrahydrofuran 	Pure	20	68	X	X	B	C	A	B	X	X				
		40	104	C	C		A	A	C			40			104				C	X	A							
		60	140	C	X		A	A	X						60	140				X		A						
		80	176				B	A							80	176						B						
		100	212					C	A						100	212												
		120	248					X	B						120	248												
Sulfuric Acid H ₂ SO ₄	98	20	68	B	B	X	A	A	X	X	X		Tetralin (Tetrahydronaphthalene) C ₁₀ H ₁₂	Pure	20	68	X		X	A	A	A	X	X				
		40	104	C	C		A	A				40			104				A	A								
		60	140	X	X		B	A							60	140				B	A							
		80	176				C	A							80	176				B								
		100	212				X	B							100	212												
		120	248					B							120	248												
Sulfuric Acid H ₂ SO ₄	100	20	68	X	X	X	X	A	X	X	X		Tetramethyl Ammonium Hydroxide (CH ₃) ₄ NOH	50	20	68				A	A							
		40	104					A				40			104				A	A								
		60	140									60			140					B	A							
		80	176									80			176					B	A							
		100	212									100			212							C	A					
		120	248									120			248								A					
Sulfurous Acid H ₂ SO ₃		20	68	A	A	A	A	A	A	A	A	C	Titanic Sulfate Ti(SO ₄) ₂		20	68	A	A	A	A	A	A	A	A				
		40	104	A	A	A	A	A	A	A		40			104	A	A	A	A	A	A	A	A					
		60	140	A	A	A	A	A	A	A	B				60	140	A	A	A	A	A							
		80	176			B	A	A	A	B	C				80	176			A	A	A	A						
		100	212					A	A	C					100	212					A	A						
		120	248					A							120	248					A	A						
Sulfuryl Chloride SO ₂ Cl ₂	Pure	20	68	X	X		B	A	A	X	X		Titanium Dioxide TiO ₂		20	68	A	A	A	A	A	A	A	A				
		40	104					C	A			40			104	A	A	A	A	A	A	A	A					
		60	140						A			60			140	A	A	A	A	A	A	A						
		80	176									80			176				A	A	A	A	A					
		100	212									100			212						A	A	A					
		120	248									120			248						A	A						
Tall Oil		20	68	A			A	A	A	B	A		Titanous Sulfate Ti ₂ (SO ₄) ₃		20	68	A	A	A	A	A	A	A	A				
		40	104	A			A	A	A			40			104	A	A	A	A	A	A	A	A					
		60	140	B			A	A	A			60			140	A	A	A	A	A								
		80	176				A	A				80			176			A	A	A	A							
		100	212				A	A				100			212					A	A							
		120	248				A	A				120			248					A	A							
Tannic Acid (Tannin) C ₇₆ H ₅₂ O ₄₆		20	68	A	A	A	A	A	A	B	A		Titanium Tetrachloride TiCl ₄		20	68	X		A		A	A	C	B				
		40	104	A	A	A	A	A				40			104				A	A								
		60	140	A	A	A	A	A				60			140				A	A								
		80	176				A	A				80			176													
		100	212				A	A				100			212													
		120	248				A	A				120			248													

Sulfuric Acid at 90°C: up to 50% – PP rated "A", EPDM rated "B"; 51-93% – PP rated "C".
*66 Baumé Sulphuric Acid = 96% concentration.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE			
		°C	°F											°C	°F											
Toluene (Toluol) C ₆ H ₅ CH ₃		20	68	X	X	A	A	A	A	X	X	Urea CO(NH ₂) ₂	50	20	68	A	A	A	A	A	A	A	A	A		
		40	104			C	A	A							40	104	A	A	A	A	A	A	A	A	A	
		60	140			X	B	A							60	140	A	A	A	A	A	A	A	A	A	
		80	176				B	A							80	176		A	A	A	A					
		100	212				C	B							100	212				A	A					
		120	248					C							120	248				A	A					
Triacetin C ₃ H ₅ O ₃ (COCH ₃) ₃	Pure	20	68					A	B	A	B	Urine		20	68	A	A	A	A	A	A	A	A	A		
		40	104					A						40	104	A	A	A	A	A	A	A	A	A		
		60	140					A						60	140	A	A	A	A	A	A	A	A	A		
		80	176					A						80	176		A	A	A	A						
		100	212					A						100	212				A	A						
		120	248					A						120	248				A	A						
Tributyl Phosphate (C ₄ H ₉ O) ₃ PO		20	68	X		A	A	A	X	B	X	Varsol		20	68			A	A	A	A	X	A			
		40	104			B	A	A						40	104											
		60	140			C	C	A						60	140											
		80	176				X	A						80	176											
		100	212											100	212											
		120	248											120	248											
Trichloro-acetic Acid Cl ₃ C.COOH		20	68	C		A	A	A	X	X	X	Vaseline (Petrolatum)		20	68	A		A	A	A	A	A	X	A		
		40	104			A	B	A						40	104	A		A	A	A						
		60	140			B	C	A						60	140	A		A	A	A						
		80	176				X							80	176			C	A	A						
		100	212											100	212				A	A						
		120	248											120	248				A	A						
Trichloro-ethylene ClHC=CCl ₂		20	68	X	X	B	A	A	A	X	X	Vinegar		20	68	A	A	A	A	A	A	A	A	C		
		40	104			C	A	A	A					40	104	A	A	A	A	A	A	A	A			
		60	140			X	A	A	A					60	140	A	A	A	A	A	A	A	A			
		80	176				A	A	A					80	176		B	A	A	A						
		100	212				A	A						100	212				B	A						
		120	248					A						120	248				B	A						
Tricresyl Phosphate (CH ₃ C ₆ H ₄ O) ₃ PO	Pure	20	68	X	X	C	A	A	A	A	X	Vinyl Acetate CH ₃ COOCH=CH ₂		20	68	X	X		A	A	X	B	X			
		40	104					A						40	104				A	A		X				
		60	140					A						60	140				A	A						
		80	176											80	176				A	A						
		100	212											100	212				A	A						
		120	248											120	248				A	A						
Triethanola-mine (HOCH ₂ CH ₂) ₃ N		20	68			A	A	A	B	A	A	Water - Deionized, Distilled or Potable		20	68	A	A	A	A	A	A	A	A	A		
		40	104					A						40	104	A	A	A	A	A	A	A	A			
		60	140					A						60	140	A	A	A	A	A	A	A	A			
		80	176					A						80	176		A	A	A	A	A	A	A			
		100	212											100	212				A	A						
		120	248											120	248				A	A						
Triethylamine (C ₂ H ₅) ₃ N		20	68				B	A	A		X	Water - Sea		20	68	A	A	A	A	A	A	A	A	A		
		40	104				B	A						40	104	A	A	A	A	A	A	A	A	B		
		60	140				X	A						60	140	A	A	A	A	A	A	A	A	B		
		80	176					A						80	176		A	A	A	A	A	A	A			
		100	212											100	212				A	A						
		120	248											120	248				A	A						
Trimethyl-propane C ₆ H ₁₄		20	68	A	A	A	A	A	A		A	Water - Waste (Domestic Sewage)		20	68	A	A	A	A	A	A	A	A	A		
		40	104	A	A	A	A	A	A		A			40	104	A	A	A	A	A	A	A	A	A		
		60	140	A	A	A	A	A	A		A			60	140	A	A	A	A	A	A	A	A	A		
		80	176		A	A	A	A	A		A			80	176		A	A	A	A						
		100	212				A	A						100	212				A	A						
		120	248					A						120	248				A	A						
Turpentine		20	68	A	A	B	A	A	A	B	B	Wine (Red and White)		20	68	A	A	A	A	A	A	A	A	A		
		40	104	A		C	A	A	A					40	104	A	A	A	A	A	A	A	A	A		
		60	140	A		X	A	A	A					60	140	B	B	A	A	A		A				
		80	176				A	A	A					80	176				A	A		A				
		100	212				A	A						100	212				A	A						
		120	248					A						120	248				A	A						
Uranium Oxide UO ₂		20	68			A	A	A	A	A	A	Xylene C ₆ H ₄ (CH ₃) ₂		20	68	X	X	X	A	A	B	X	C			
		40	104				A	A	A	A	A			40	104				A	A						
		60	140				A	A						60	140				A	A						
		80	176				A	A						80	176				A	A						
		100	212					A						100	212				A	A						
		120	248											120	248				A	A						

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE																					
		°C	°F											°C	°F																													
Zinc Acetate (CH ₃ COO) ₂ Zn·2H ₂ O		20	68	A	A	A	A	A	A	A	A	Hydrochloric Acid	25	20	68	A	A	A	A	A	A	A	A	A	A																			
		40	104	A	A	A	A	A	A	A	A			Ferric Chloride	(1:1)	40	104	A	A	A	A	A	A	A	A	A																		
		60	140	A	A	A	A	A	A	A	A					28		60	140	A	A	A	A	A	A	A	A	A																
		80	176	A	A	A	A	A	A	A	A							100	212	80	176	A	A	A	A	A	A	B	B															
		100	212				A	A	A											120	248	100	212			B	B	A	A	C														
		120	248				A	A														20	(1:1)	120	248				B	A														
Zinc Bromide ZnBr ₂	Satu	20	68	A	A	A	A	A	A	A	Hydrochloric Acid	20	20											68				A	A	A	A													
		40	104	A	A	A	A	A	A	A			A	28										40	104				A	A	A	A												
		60	140	A	A	A	A	A	A	A			A			100	212							60	140				A	A	A	A												
		80	176				A	A										120	248					80	176				A	A	B	B												
		100	212																	25	(1:1)			100	212				A	A	C													
		Zinc Chloride ZnCl ₂		120	248				A	A													28		120	248				A	A													
20	68			A	A	A	A	A	A	A	Hydrochloric Acid	25	20									68						A	A		A													
40	104			A	A	A	A	A	A	A			28		40							104						A	A		A													
60	140			A	A	A	A	A	A	A					100	212	60					140						A	A		A													
80	176				A	A	A	A	A									120	248			80			176				A	A		B												
Zinc Cyanide Zn(CN) ₂				100	212				A	A							A				20	(1:1)			100	212				A	A													
		120	248				A	A									10			(1:1)			120	248				A	A															
		20	68	A		A	A	A	A	A	Hydrochloric Acid	10											20	68	A	A		A	A															
		40	104				A	A					15										40	104	B	B		A	A															
		60	140				A	A							20	(1:1)							60	140	B	B		A	A															
		Zinc Nitrate Zn(NO ₃) ₂ ·6H ₂ O		80	176		A	A	A	A								A	B				Hydrofluoric Acid	20	80	176			B	A	A													
100	212						A	A										18	(1:1)		100	212						A	A															
120	248						A	A									20				120	248						B	A															
20	68			A	A	A	A	A	A	A	Hydrochloric Acid	18									20	68			A	A		A	A															
40	104			A	A	A	A	A	A	A			20	(1:1)							40	104			B	B		A	A															
Zinc Sulfate ZnSO ₄				60	140	A	A	A	A	A					A	A					50g	100g			60	140	B	B	X	A	A													
		80	176		A	A	A	A	A	B					50	5g							80	176			C	A	A															
		100	212				A	A										36 %	36 %				100	212				A	A															
		120	248				A	A									170 PPM			170 PPM			120	248				B	A															
		Mixed Chemicals																					Hydrochloric Acid	36 %	20	68	B	B	B	A	A	B	B	Hydrochloric Acid	36	20	68	B	B	X	A	A	X	X
														40											104	B	B	B	A	A	B	B	12 PPM			(1:1)	40	104	X	X		A	A	
60	140																								B	A	B	C	36 %	36 %	60	140								A	A			
80	176																				A	A			B		54 PPM	54 PPM			80	176							B	B	A	A	B	
100	212																	B	A		C				20	100g					100	212								A	A			
Hydrochloric Acid	18%													120	248				B	A											98	98					120	248				X	A	
		20	68	B	C	B	A	A	B	C	Hydrochloric Acid	36	20	68	A	A	A	A	A	X	X	X																						
		40	104	B	B	B	A	A	B	C			Sulfuric Acid	144g	40	104	A	A	A	A	A																							
		60	140	B	B	B	A	A	B						5	5g	60	140	B	B	A	A	A	A					A															
		80	176		B	B	A	A	C								890 PPM	890 PPM	80	176			B	B			A	A	A	B														
		100	212				A	A											250	250	100	212				A	A																	
Hydrochloric Acid	36%	120	248				B	A													Sulfuric Acid	13g	120	248				B	A															
		20	68	B	C	B	A	A	B	C	Hydrochloric Acid	36											20	68	A	A	X	A	A	X	X													
		40	104	B		B	A	A	C				Ammonium Fluoride	8 g/l									40	104	A	A		A	A															
		60	140				A	A							8	8							60	140	B	B		A	A															
		80	176				A	A									120	248					80	176			C	A	A															
		100	212				B	A											250	250			100	212				A	A															
120	248				C	A			8	8											120	248				A	A																	

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	TEFLON	VITON	EPDM	NITRILE
		°C	°F											°C	°F								
Chromic Acid	220	20	68	A	A	X	A	A	X	X		Sulfuric Acid	4	20	68	B	B	X	A	A	X	X	
		40	104	B	B		A	A						40	104	B	B		A	A			
Chromium Sulfate	1	60	140	B	B		A	A				Chromic Acid	400 g/l	60	140		B		A	A			
		80	176		B		A	A						80	176		C		A	A			
Sodium Silicofluoride	12 g/l	100	212				A	A				Sulfuric Acid	15	20	68	A	A	X	A	A	A	B	
		120	248				A	A						40	104	B	B		A	A	A	B	
Chromic Acid	350	60	140	C	C		A	A				Chromic Acid	5	60	140	B	B		A	A	B	C	
		80	176				A	A						80	176				A	A	C	X	
Oxalix Acid	1 g/l	100	212				A	B				Phosphoric Acid	80 parts	100	212				A	A	X		
		120	248				A	B						120	248				A	A			
Nitric Acid	15	20	68	A	A	A	A	A				Sulfuric Acid	2	20	68	A	A	X	A	A	A	X	
		40	104	A	A	A	A	A						40	104	A	A		A	A	A	B	
Hydrofluoric Acid	(1:1)	60	140	B	B	B	A	A				Chromic Acid	10	60	140	B	B		A	A	C		
		80	176	X	X		A	A						80	176		B		A	A	X		
Nitric Acid	3	100	212				A	A				Water	80 parts	100	212				A	A			
		120	248				A	A						120	248				A	A			
Nitric Acid	15	20	68	A	A	A	A	A	A	A		Sulfuric Acid	0.7	20	68	A	A	X	A	A	X	X	
		40	104	A	A	A	A	A	A	B				40	104	A	A		A	A			
Hydrofluoric Acid	(1:1)	60	140	B	C	X	A	A	B			Chromic Acid	250	60	140	B	B		A	A			
		80	176	X	X		A	A	B					80	176		B		A	A			
Nitric Acid	5	100	212				A	A	C			Sodium Silicofluoride	1 g/l	100	212				A	A			
		120	248				B	A	X					120	248				A	A			
Nitric Acid	15	20	68	A	B	B	A	A				Sulfuric Acid	20	20	68	A	A	X	A	A	A	A	
		40	104	B	C	B	A	A						40	104	B	B		A	A	B	B	
Hydrofluoric Acid	(1:1)	60	140	B	C		A	A				Hydrofluoric Acid	(1:1)	60	140	B	B		A	A	C	C	
		80	176	X	X		A	A						80	176		C		A	A			
Nitric Acid	10	100	212				B	A				Hydrofluoric Acid	10	100	212				A	A			
		120	248				B	A						120	248				B	A			
Nitric Acid	15	20	68	A	B	B	A	A				Sulfuric Acid	25	20	68	A	A	X	A	A			
		40	104	B	C	B	A	A						40	104	B	B		A	A			
Hydrofluoric Acid	(1:1)	60	140	B	C		A	A				Hydrofluoric Acid	(1:1)	60	140	B	B		A	A			
		80	176	X	X		A	A						80	176	X	X		A	A			
Nitric Acid	15	100	212				B	A				Hydrofluoric Acid	15	100	212				B	A			
		120	248				B	A						120	248				B	A			
Nitric Acid	5	20	68	A	A	A	A	A				Sulfuric Acid	75	20	68	A	A	B	A	A			
		40	104	B	B	B	A	A						40	104	A	A	B	A	A			
Hydrofluoric Acid	(1:1)	60	140	B	B	B	A	A				Nitric Acid	5	60	140	B	B	C	A	A			
		80	176	X	B	C	A	A						80	176		B		A	A			
Nitric Acid	20	100	212				B	A				Chlorine Gas	Trace	100	212				A				
		120	248				B	A						120	248				A				
Nitric Acid	50	20	68	B	B	B	A	A				Sulfuric Acid	75	20	68	A	A	A	A	A	A	A	
		40	104	X	X	X	A	A						40	104	A	A	B	A	A	B	A	
Sulfuric Acid	100g	60	140				A	A				Sulfurous Acid	(1:1)	60	140	A	A	B	A	A	C	B	
		80	176				A	A						80	176		B	B	A	A	X	C	
Sulfuric Acid	50	100	212				A	A				Sulfurous Acid	4	100	212				A	A			
		120	248				A	A						120	248				A	A			
Sulfuric Acid	2	20	68	A	A	X	A	A	A	B		Sulfuric Acid	150	20	68	A	A	A	A	A	A	A	
		40	104	A	A		A	A	B					40	104	A	A	A	A	A	A	A	
Chromic Acid	(1:1)	60	140	B	B		A	A	C			Spelter	80	60	140	A	A	A	A	A	A	A	
		80	176		B		A	A	X					80	176		B	B	A	A	B	B	
Sulfuric Acid	10	100	212		C		A	A				Manganese Sulfate	2 g/l	100	212				A	A			
		120	248				A	A						120	248				A	A			
Sulfuric Acid	10	20	68	A	B	X	A	A	A	B		Sodium Sulfate	225	20	68	A	A	A	A	A	A	A	B
		40	104	B	B		A	A	B					40	104	A	A	A	A	A	A	A	
Chromic Acid	(1:1)	60	140	C	X		A	A	C			Sulfuric Acid	225	60	140		A	A	A	A	A	A	
		80	176				A	A						80	176		B	B	B	B	A		
Sulfuric Acid	10	100	212				A	A				Formaldehyde	50 g/l	100	212				B	B	A		
		120	248				A	A						120	248								
Sulfuric Acid	10	20	68	A	B	X	A	A	B	C		Sulfuric Acid	98	20	68				A	A			
		40	104	B	B		A	A	C					40	104				A	A			
Chromic Acid	(1:1)	60	140	C	X		A	A	X			Phosphoric Acid	(1:1)	60	140				C	B			
		80	176				A	A						80	176								
Sulfuric Acid	25	100	212				A	A				Phosphoric Acid	80	100	212								
		120	248				B	A						120	248								

Advantages of Chemline Solid Thermoplastic Valves and Controls

Light Weight – Chemline plastic valves are the soundest design choice for a plastic piping system. No special supporting is required. Installation and maintenance is fast and easy. For an overview of our product line, please request a copy of our English or French Condensed Catalogue.

Chemline

Plastic Valves and Controls



Condensed Catalogue

CHEMLINE
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High Strength – All Chemline valves are of heavy-duty construction. Due to the plastics' elasticity, high stresses will not develop when the valve bodies are strained.

High Product Purity – PVC and CPVC resins for Chemline valves meet requirements for toxicity as detailed in CSA Standard B137.0. The PP and PVDF compounds meet

FDA requirements for contact with food.

High Corrosion Resistance – Inside and Out – Chemline valves will stand up to many aggressive chemical services where expensive alloy metals fail. They are designed to withstand corrosive atmosphere.

No Lining Problems – Bodies and discs are solid plastic. There is no coating or lining which may peel, crack, perforate or abrade away.

Good Abrasion Resistance – Plastics have lower friction factors than metal and can better absorb the energy of impacting particles. Chemline valves outperform metal valves on abrasion.

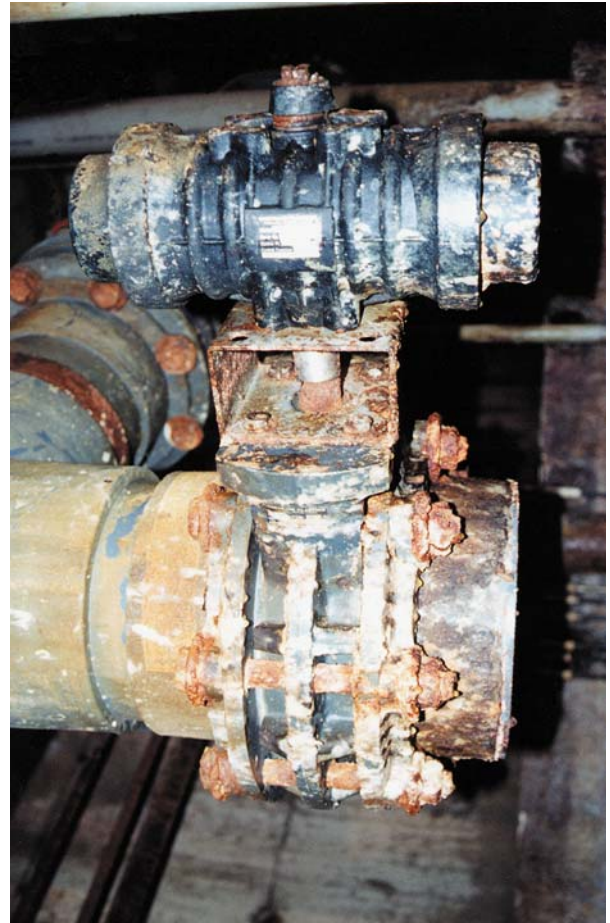
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*Your Pipeline To Quality Valves,
Piping, Flow Meters and Controls*

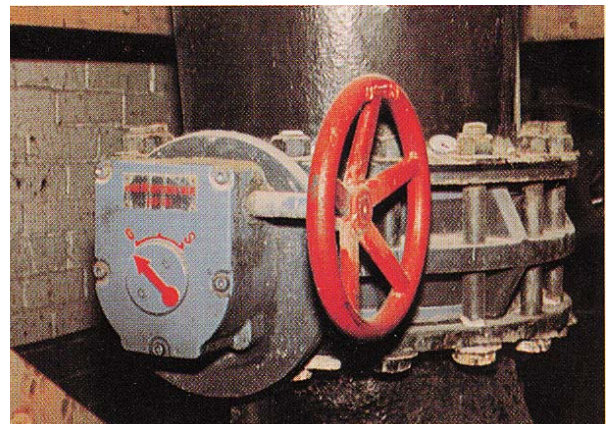
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This Chemline butterfly valve complete with P Series pneumatic actuator has been in service since 1985. It is on a wastewater line at an Ontario rendering plant. External corrosion is severe due to an ammonia atmosphere.



This 6" polypropylene butterfly valve is on wet sulphur dioxide gas up to 140°F in a paper mill in Ontario. It was installed in July 1979 to replace a much higher priced special alloy butterfly valve.

CRG301

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