



CHEMICAL RESISTANCE GUIDE



**PURE CHEMICALS
MIXED CHEMICALS**

PVC.CPVC.PP.PVDF.PTFE.PFA
EPDM.FPM/FKM/FKM-F(Viton®).Nitrile



CHEMLINE PLASTICS
SUPERIOR FLOW SOLUTIONS

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CHEMICAL RESISTANCE GUIDE



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Note: Properties of plastics and elastomers vary because different compounds of the same material are used for different products and components. The following materials descriptions are of a general nature. Chemline should be consulted for material recommendations on specific applications.

THERMOPLASTICS

Most plastics are made from synthetic resins (polymers) through the process of polymerization. Two main types of plastics are thermoplastics and thermosets. Thermoplastic products are injection moulded or extruded from compound material processed under heat and pressure.

PVC (Polyvinyl Chloride)

The largest selection of Chemline valves and controls are moulded in PVC. This rigid gray colour material is unplasticized polyvinyl chloride. PVC is formed by the polymerization of the vinyl chloride monomer. Unplasticized PVC or PVC-U has 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). Vinyl is plasticized PVC. The added plasticizer produces a flexible material for such products as tubing, but offers poor chemical resistance.

Chemline PVC valves are non-toxic. They are resistant to damaging effects of sunlight and weathering, thus painting is not necessary.

CPVC (Chlorinated Polyvinyl Chloride)

CPVC is PVC that has been chlorinated via a free radical chlorination reaction. It is similar to PVC in chemical resistance. Mechanically it is more ductile than PVC. Its main difference is higher working temperature ratings and is therefore used where temperatures are too high for PVC or when an extra margin of safety is required. Valves are suitable for applications from 0 to 95°C (30 to 200°F).

PP (Pigmented Polypropylene)

Polypropylene (PP) is a thermoplastic polyolefin made from the olefin propylene. A more modern term for polyolefin is polyalkene. Chemline offers piping systems, valves and controls normally in pigmented PP. The addition of grey-beige pigment prevents degradation due to ultraviolet light penetration.

PP is used in a wide variety of applications from acids and alkalis to organic solvents as well as pure water. PP is one of the best materials to use for systems exposed to varying pH levels, as many plastics do not handle both acids and bases well. It is excellent on acids such as hydrochloric and phosphoric acid but unsuitable on strong acids like concentrated nitric, also chlorinated hydrocarbons, aromatic compounds and high concentrations of free chlorine.

PP is ductile at ambient temperature and has good impact strength. It also has good thermal stability up to 90°C (194°F), higher than that of other thermoplastics such as PVC and HDPE. It is light weight. The specific

gravity is 0.91 compared to 1.4 for PVC. Its abrasion resistance is good, much better than that of PVC. This is a feature of Chemline PVC butterfly valves which have PP discs as standard.

Chemline PP pipe and fittings weld together very well using either butt or socket fusion. The pressure losses in PP piping systems are lower than metal because of the smooth inside surfaces of the pipes. This property also minimizes or eliminates deposits or bacterial growth. PP is a poor conductor of heat, i.e. is a good insulator. Chilled or hot water systems in PP often require no insulation.

PP is very inert and relatively inexpensive, thus popular for high purity water systems. The standard pigmented material is normally used.

Special grades include U-PP (unpigmented, natural) translucent material sometimes preferred for pure water systems, pigmented black for the highest resistance to UV light, flame retardant grades to meet building code requirements, and electro-conductive grades for volatile media.

Polypropylene is available in two grades:

- Homopolymer (PP-H) made from Type I resin conforming to ASTM D 4101, produced from 100% propylene monomer. PP-H is the most widely utilized. It offers a high strength to weight ratio and is stiffer and stronger than the copolymer grade. Piping is normally PP-H. A few Chemline valves are also PP-H. The working temperature range of PP-H back pressure valves for example is 10 to 70°C (50 to 158°F).
- Random Copolymer (PP-R) made from Type II resin produced from 94% propylene with 6% ethylene. PP-R is a bit softer but has better impact strength, is tougher and more durable than PP-H. Copolymer polypropylene has better stress crack resistance and low temperature toughness than homopolymer at the expense of small reductions in other properties. Most Chemline valves and all the pipe fittings are PP-R. PP-R pipe is also available. The working temperature range of Chemline's PP-R ball valves is -20 to 80°C (-4 to 176°F) and up to 90°C (194°F) for diaphragm valves.

U-PP (Unpigmented Polypropylene)

U-PP is produced from high-purity virgin random copolymer. Chemline offers PP pipe, fittings and valves in unpigmented PP.

U-PP shows excellent purity levels when tested in standard static leach tests (better than high-purity PVC) and has a superior surface quality, i.e. smoothness ($R_a=0.4$ to $1.5\text{ }\mu\text{m}$), making it a popular choice for high-purity water systems. It is suitable as piping for high purity water systems, compliant with USP Class VI for pharmaceutical high purity applications. It is also approved by the FDA for contact with food. The disadvantage of U-PP is it will degrade if exposed to UV light (sun light).

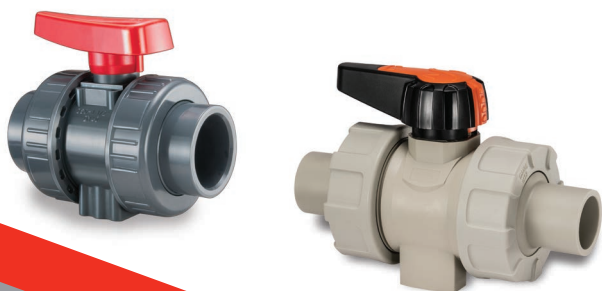
PVDF (Polyvinylidene Fluoride)

PVDF also known as "Kynar®", is a highly inert and pure thermoplastic fluoropolymer. It has many superior properties as a thermoplastic.

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.

PVDF has much higher abrasion resistance than other thermoplastics, important for chlor-alkali process applications like wet chlorine gas and HCl. PVDF's impact strength is over twice that of PVC. It withstands mechanical abuse at sub-freezing temperatures. Chemline's butterfly valves with optional PVDF discs offer extended life on abrasive applications.

It has remarkable strength over the largest working temperature range. The working temperature range of PVDF ball valves is -20 to 100°C (-4 to 212°F) and up to 120°C (250°F) for diaphragm valves with a PVDF bonnet.



PVDF's impact strength is over twice that of PVC. The valves and piping will withstand mechanical abuse at sub-freezing temperatures.

PVDF is a pure polymer without UV stabilizers, thermo stabilizers, softeners, lubricants or flame-retardant additives. It the preferred choice of piping material for ultra-pure water and high purity chemicals in the semiconductor industry. PVDF is non-toxic, imparts no odours or tastes into the fluid. It is compliant with USP Class VI for pharmaceutical high purity applications and conforms with FDA regulations as outlined in Title 21, Chapter 1, Part 177-2510 (contact with food) as well as with ROHS. The Canadian Food Inspection Agency recognizes Chemline's PVDF for use in any food application by "Letter of No-Objection".

Gas permeability of PVDF is extremely low. A PVDF gas permeability barrier is available on most Chemline diaphragm valves. It is a backing to the PTFE diaphragm and has proven to increase the life of diaphragm valves on chlorine and strong acid services.

PVDF offers excellent fire protection without flame-retardant additives (V-O rating according to the UL-94 vertical flame test) and during combustion has only a slight amount of smoke development. It has high resistance to the damaging effects of UV (sun light) and gamma radiation.

ECTFE (Halar®)

ECTFE is a durable copolymer of ethylene and chlorotrifluoroethylene (CTFE). Chemline offers butt fusion metric pipe and fittings in ECTFE, commonly known as "Halar®". ECTFE shares with PVDF excellent properties such as high chemical resistance, wide application temperature range, good UV resistance (i.e. unaffected by sunlight long term), excellent abrasion resistance, smooth inner surfaces (low pressure losses, resistant to deposits or bacterial buildup), excellent insulating properties and low permeability. It is extremely inert and the material is natural, without any additives or pigment. It is suitable as piping for high purity water systems, compliant with USP Class VI for pharmaceutical high purity applications.

ECTFE has a working temperature range up to 95°C (200°F). Pressure ratings are higher than for PP but lower than for PVDF.

ECTFE has excellent chemical resistance (i.e. not subject to chemically induced stress cracking) against halogens such as chlorine and bromine, strong acids such as hydrofluoric and nitric acids, organic solvents and oils. ECTFE surpasses PVDF in resistance to strong bases and is the best material for handling sodium hypochlorite even at high temperatures. ECTFE is not resistant to hot amines, sodium or potassium.

ECTFE offers excellent fire protection without addition of flame-retardant additives. It has a V-O rating according to the UL-94 vertical flame test.

PE (Polyethylene)

Polyethylene is the polyolefin produced by polymerizing the olefin ethylene. The ball in a Chemline Cavity Free ball valve is made of PE. They withstand abrasion better than PVC.

PSU (Polysulfone)

Polysulfone is a thermoplastic polymer containing a sulfonyl functional group (-SO₂-) attached to two carbon atoms. It is offered as a tube material for Chemline variable area flow meters. It offers high impact strength, high dimensional stability and good optical transparency, all important for accuracy and easy reading of the flow meters. Working temperature range of the PSU flow meters is 0 to 90°C (32 to 194°F) depending on end and nut materials. While the standard PVC tube flow meters are not recommended for gases, PSU ones are. It is also more suitable for high purity water applications. The chemical resistance is good generally, but lower than that of PVC.

PA (Polyamide)

Polyamide is a polymer containing monomers of amides. There are a number of polyamide families. Polyamide is a tube material for Chemline variable area flow meters. It offers high impact strength, high dimensional stability and excellent optical transparency. The special grade to PA used for flow meters has very low water absorption rate. These properties are all important for accuracy and easy reading of the flow meters. PA tube flow meters may be used on pressurized gases, whereas PVC cannot be. Working temperature range of the flow meters is 0 to 75°C (32 to 167°F) depending on end and nut materials. This is higher than for PVC. Chemical resistance is relatively poor compared to PVC, so applications generally are water or only mildly corrosive chemicals.

COMPOSITES

Thermosets are polymers that irreversibly cure. The curing process transforms the resin into a larger molecular weight plastic by a cross-linking process. The process is initiated through heat, generally above 200°C (392°F), through a chemical reaction (two-part epoxy is an example), or irradiation. Due to the three dimensional network of bonds (cross-linking), thermoset materials are generally stronger than thermoplastic materials and have higher temperature ratings.

FRP (Fiberglass Reinforced Plastic)

Fiberglass reinforced plastic (FRP) is a composite material made from glass reinforcement in a thermoset polymer, usually vinyl ester resin. Chemline



FRP damper butterfly valves are made from high elongation vinyl ester for high resistance to impact and thermal shock. Special additives to the FRP can be provided for extremely high abrasion resistance in dirty corrosive gas handling applications. Fire retardants are always incorporated for the Chemline damper butterflies.

PPG (Glass-filled Polypropylene)

PPG is an injection mouldable composite comprising short glass fibers in a matrix of polypropylene (PP). PPG is an engineering plastic, with better mechanical and/or thermal properties than standard plastics like PVC or polyethylene. PPG body valves are rated for service temperatures up to 266°F (130 C). Polypropylene features resistance to a wide range of chemicals, is lightweight, tough, and has high impact strength over a large temperature range. Glass fiber-reinforcement improves those properties, increasing strength, rigidity, dimensional stability, resistance to warpage, and maximum service temperatures.

PPSG (Glass-filled Polyphenylene Sulfide)

Polyphenylene Sulfide (PPS) is an important high temperature thermoplastic polymer. It is considered a high performance plastic because its properties are at a level higher than engineering and standard plastics. It has the broadest resistance to chemicals of any high performance plastic. PPS products have no known solvents below 392°F (200 C) and are inert to steam, strong bases, fuels and acids. Glass fiber reinforced PPS (PPSG) has heat distortion temperature amongst the highest of the thermoplastics and high stiffness at room temperatures. PPSG body valves are recommended for service temperatures up to 320°F (160 C). Impact strength and abrasion resistance is high.

VE-CF

VE-CF is a proprietary composite thermoset material. It is composed of vinyl ester filled with 10% carbon fiber and 10% glass fiber. It is the body material of Chemline's ChemValve TFM (PTFE) lined butterfly valves. VE-CF has high temperature rating of 130°C (266°F), and high tensile strength for high valve working pressures. It has high impact strength even at low temperatures. All these properties mean durability and safety in severe and difficult chemical applications.

FLUOROPOLYMERS

Fluoropolymers are fluorocarbon based polymers with multiple strong carbon-fluorine bonds. They are characterized by a high resistance to solvents, acids, and bases. They have high application temperature ranges.

PTFE (Polytetrafluoroethylene)

PTFE is almost totally insoluble and chemically inert. It has high temperature resistance. Ball seats of PTFE have natural lubricity. Chemline diaphragm valves with PTFE diaphragms and PTFE bonded EPDM flange gaskets are suitable for the most severe chemical resistance applications.

PTFE's weakness is that during the forming process the powder raw material cannot flow, so the finished material is left with some microporosity. This allows it to "cold flow" or creep under conditions of

pressure and temperature. The microporosity also reduces the polymer's permeation resistance. Chemline PTFE diaphragms are supplied standard with PVDF gas barriers to avoid permeation problems which may reduce the diaphragm life. Newer fluoropolymers such as PFA and TFM were developed to overcome PTFE's weak properties.

PFA (Perfluoroalkoxy)

Perfluoroalkoxy (PFA) is a fully fluorinated polymer with unlimited chemical resistance and high temperature performance similar to PTFE. The big difference is that it is melt process able. PFA can be extruded to make pipe or tubing, injection molded for tube fittings and valve linings and seats. It has much lower porosity than PTFE and is translucent instead of opaque white. Mechanically it is stronger, meaning longer cycle life. The threads in a moulded PFA tube fitting are vastly superior in durability and strength compared to the threads machined on a comparable PTFE fitting. Application temperature is to 150°C (300°F). Chemline recommends PFA as the best choice of fluoropolymer tubing. Compared to its fluoropolymer cousin FEP (fluorinated ethylene propylene), it has higher heat resistance and can withstand repeated bending without failure. Like PTFE and TFM the PFA fluoropolymer is made from tetrafluoroethylene (TFE) and perfluoropropylvinyl ether (PPVE) monomer units. However, it is polymerized with a higher percentage of the PPVE comonomer; as much as 3 to 4% compared to <1% for TFM PTFE. This increases polymer-chain entanglement at lower molecular weight levels and makes it melt process able.

FEP (Fluorinated Ethylene Propylene)

FEP is a melt-process able fully fluorinated polymer with similar chemical resistance as PTFE and PFA and similar low porosity and translucency as PFA. FEP is a copolymer of hexafluoropropylene and tetrafluoroethylene (TFE) resin. FEP is less expensive than PFA tubing but the temperature rating is not as high and mechanical properties not as good. Convuluted FEP is usually chosen for the outer tubing of dual containment PFA tube systems. FEP is not used for moulding fittings.

TFM (modified PTFE)

TFM is a modified form of PTFE. It's chemical and temperature resistance is the same as standard PTFE but TFM can be welded together, or to PFA parts. Also porosity is lower, tensile strength is higher, and cold flow is less. The seats of the ChemValve, all-fluoropolymer lined butterfly valves are made of TFM. HD Series HYBRID diaphragm valves have TFM diaphragms designed for long cycle life in severe chemical service. It is a tetrafluoroethylene (TFE) polymerized with less than <1% perfluoropropylvinyl ether (PPVE) to produce a slightly higher density molecular structure with side chain branching. This branching increases polymer-chain entanglement, slightly lowers molecular weight, and reduces voids as well as warpage of the material under pressure.

Compared to standard PTFE, TFM PTFE has higher permeation resistance which means better resistance to aggressive chemical, less "cold flow" or "creep" which means longer life for a butterfly valve seat for example and smoother surfaces which translates to better abrasion resistance and lower particle generation in high purity services.

ELASTOMERS

EPDM (Ethylene Propylene Diene Monomer)

EPDM is a type of synthetic rubber, a cost effective elastomer used as the standard seal material for most Chemline valves. E=ethylene, P=propylene, D=diene and M refers to M-class according to ASTM D-1418. The M class includes rubbers having a saturated chain of the polymethylene type. EPDM has excellent chemical resistance on the great majority of applications including acids, alkalis, salts and many others at temperatures up to 90°C (194°F). EPDM is weak on organic compounds and cannot be used on fats and petroleum oils.

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



FKM or FPM ("Viton®" Fluorocarbon Rubber)

FKM (or FPM) is a fluoroelastomer, polymerized from vinylidene fluoride (VDF) and hexafluoropropylene (HPF). Other FKM types include other additional monomers. "Viton®" is more expensive than EPDM so is usually chosen as an alternate elastomer when required. It is a durable material, offering excellent seal life in valves. Resistance to mineral acids, oils and many aliphatic and aromatic hydrocarbons is excellent. FKM/FPM is weak on sodium hydroxide. It is usually offered as a standard seal material for PVDF valves because EPDM's temperature rating is lower than that of PVDF, whereas FKM's maximum temperatures match or exceed those of PVDF.

- FKM-F offers better chemical resistance on inorganic acids than standard FKM. The Chemline chemical resistance guide shows ratings for hydrochloric, nitric and sulphuric acids. A butterfly or diaphragm valve with FKM-F seat or diaphragm can work in services where only all-PTFE lined valves are normally selected. Elastomer seated valves usually have longer cycle life than those with PTFE seals.

CPE (Chlorinated Polyethylene)

CPE is a high performance synthetic rubber material renowned for long life in outdoor membrane applications (pools, fountains, roofs, etc.). As a seal material for Chemline valves it has found to be 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 (formerly referred to as Buna-N) 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 FKM/FPM. It is often chosen as a seat material for Chemline butterfly valves in landfill applications and for abrasive slurry applications. It is an excellent alternative to FKM/FPM (Viton®) for petroleum based services.

Aflas®

Aflas® is a copolymer of tetrafluoroethylene and propylene (TFE/P). It offers excellent chemical resistance to strong acids and bases and excellent oil resistance. It is used as an alternate o-ring material in Chemline valves where higher chemical resistance than FKM/FPM is required. It has high heat resistance making it a good choice for PVDF ball valves seals.



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.

Concentration (%) is by weight.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	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			
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			
Acetic Anhydride (CH ₃ CO) ₂ O	Pure	20	68	X	X		B	A	X	C	X
		40	104			C	C	A		X	
		60	140			X	X	A			
		80	176					A			
		100	212					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			
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			
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			
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			
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			
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	A	X		
		100	212				A	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			
Acetyl Bromide CH ₃ COBr		20	68					A	A		
		40	104					A	A		
		60	140					A	A		
		80	176					B	A		
		100	212					A			
Acetyl Chloride CH ₃ COCl		20	68					A	A	X	X
		40	104					A	B	A	
		60	140					C	C	A	
		80	176				X	X	A		
		100	212					A			
Acetylene C ₂ H ₂		20	68	A	X	A	A	A	A	C	A
		40	104			A	A	A	A	C	A
		60	140			A	A	A	A	X	B
		80	176			B	A	A	A		
		100	212					A	B		

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Acrylonitrile CH ₂ =CHCN		20	68	X	X	B	A	A	X	A	X
		40	104			C	B	A		A	
		60	140				C	A		B	
		80	176				X	A			
		100	212					A			
		120	248					A			
Adipic Acid H ₀₀ C(CH ₂) ₄ -COOH	Satu	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	B		
		120	248				A	A			
Allyl Alcohol CH ₂ =CHCH ₂ OH		20	68	A		A	A	A	A		A
		40	104			A	A	A	A		B
		60	140			B	A	A	A		B
		80	176				A	A	B		
		100	212					A			
		120	248					B			
Allyl Chloride CH ₂ =CHCH ₂ Cl		20	68	X			A	A	B	X	B
		40	104				C	A	B		C
		60	140				X	A	C		X
		80	176					A			
		100	212					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
		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	B
		100	212				A	A	A		
		120	248				A	A			
Aluminum Acetate Al(CH ₃ CO ₂) ₃	Satu	20	68	A	A	A	A	A	A	A	
		40	104	B	B	A	A	A	B	A	
		60	140				A	A		A	
		80	176				A	A		A	
		100	212				A	A			
		120	248					A			
Aluminum Ammonium Sulfate (Ammonium Alum) (NH ₄)Al(SO ₄) ₂	Satu	20	68			A	A	A	A	A	A
		40	104			A	A	A	A	A	A
		60	140			A	A	A	A	A	A
		80	176			A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Aluminum Bromide Al Br ₃	Satu	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		A	A	A	A	A		
		100	212				A	A			
		120	248				A	A			
Aluminum Chloride Al Cl ₃	Satu	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	B	B	A	A	A	A	A	
		80	176		B	A	A	A	A	A	
		100	212				A	A	A		
		120	248				A	A			
Aluminum Fluoride Al F ₃	Satu	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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Aluminum Hydroxide Al(OH) ₃	Satu	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		A	A	A	A	A	B	B
		100	212				A	A	B		
		120	248				A	A			
		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		A	A	A	A	A	B	B
		100	212				A	A	B		
		120	248				A	A			
Aluminum Nitrate Al (NO ₃) ₃	Satu	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		A	A	A	A	A	A	B
		100	212					A	A	A	
		120	248					A	A		
Aluminum Sulfate Al ₂ (SO ₄) ₃	Satu	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		A	A	A	A	A		
		100	212					A	A		
		120	248					A	A		
Aminoacetic Acid NH ₂ CH ₂ COOH	10	20	68	A		A	A	A	A	B	A
		40	104	A		A	A	A			A
		60	140				A	A			
		80	176				A	A			
		100	212					A			
		120	248					A			
Ammonia Gas NH ₃	100	20	68	A	C	A	A	A	X	A	A
		40	104	A	C	A	A	A		A	A
		60	140	A	X	B	A	A		A	B
		80	176		X	B	A	A		B	
		100	212				B	A			
		120	248				B	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	A	A
		60	140	A	A	A	A	A	A	A	A
		80	176		B	B	A	A	B	B	B
		100	212				A	A	B		
		120	248				B	A			
Ammonium Bicarbonate NH ₄ HCO ₃		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			A	A	A			
		100	212				A	A			
		120	248					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
		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			
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
		60	140	A	A	A	A	A	A	A	A
		80	176		B	B	A	A	A	A	B
		100	212				A	A	A		
		120	248				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
		60	140			A	A	A	A	A	
		80	176			B	A	A			
		100	212				A	A			
		120	248				A	A			
Ammonium Hydrogen-fluoride (NH ₄)HF ₂	Satu	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		A	A	A	A	B	B	B
		100	212				A	A	B		
		120	248				A	A			
Ammonium Hydroxide (Ammonium Solution) NH ₄ OH	10	20	68	A	C	A	A	A	B	A	A
		40	104	A	C	A	A	A	C	A	B
		60	140	A	X	A	A	A	X	A	B
		80	176		X	B	A	A			
		100	212				A	A			
		120	248				B	A			

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

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

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Barium Chloride BaCl ₂	Satu	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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A	A		
Barium Hydroxide Ba(OH) ₂	Satu	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	A	B	A	A	A	B
		100	212					A	A		
		120	248					A	A		
Barium Nitrate Ba(NO ₃) ₂	Satu	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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A	A		
Barium Sulfate BaSO ₄	Satu	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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A	A		
Barium Sulfide BaS	Satu	20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	A	B
		60	140	A	A	A	A	A	A	A	
		80	176		A	A	A	A	A		
		100	212				A	A	A		
		120	248				A	A	A		
Beer		20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	A	B
		60	140	A	A	A	A	A	A	A	B
		80	176		A	A	A	A	A	A	B
		100	212				A	A			
		120	248				A	A			
Benzaldehyde C ₆ H ₅ CHO	Satu	20	68	X		A	A	A	C	C	X
		40	104				A	A			
		60	140				B	A			
		80	176					A			
		100	212					A			
		120	248								
Benzene C ₆ H ₆	Pure	20	68	C	C	B	A	A	A	X	X
		40	104	X	X	C	B	A	B		
		60	140				B	A	B		
		80	176				C	A	B		
		100	212				X	A			
		120	248					A			
Benzene Sulfonic Acid C ₆ H ₅ SO ₃ H	10	20	68	A			A	A	A	A	X
		40	104				B	A	A		
		60	140				C	A	A		
		80	176				X	A			
		100	212					A			
		120	248					B			
Benzine	Pure	20	68			A	A	A	A	X	A
		40	104			B	A	A	A		A
		60	140			C	B	A	A		B
		80	176					A	B		
		100	212					A			
		120	248								
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	B	B
		60	140	B	B		A	A	A	B	B
		80	176		C		A	A	A		
		100	212				A	A	B		
		120	248				B				
Benzoyl Chloride C ₆ H ₅ COCl		20	68	X	X	A	A	A	X	X	X
		40	104					A	A		
		60	140					B	A		
		80	176					A			
		100	212								
		120	248								
Benzyl Alcohol C ₆ H ₅ CH ₂ OH	Pure	20	68				A	A	A	A	X
		40	104				A	A	A	A	B
		60	140				A	A	A	A	C
		80	176					A	A	B	
		100	212					A	A	B	
		120	248					A	A		
Benzyl Benzoate C ₆ H ₅ COOCH ₂ -C ₆ H ₅	Satu	20	68				A	A		B	X
		40	104					B	A		
		60	140					B	A		
		80	176								
		100	212								
		120	248								
Benzyl Chloride C ₆ H ₅ CH ₂ Cl	Pure	20	68				A	A			
		40	104					A	A		
		60	140					A	A		
		80	176					A	A		
		100	212								
		120	248								
Black Liquor	Satu	20	68	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	A
		80	176		B	B	A	A	A	A	B
		100	212				A	A	A		
		120	248				B				
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	
		60	140	A	A		A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Bleaching Agent Ca(ClO) ₂ CaCl ₂ -2H ₂ O	12	20	68	A	A		A	A	A	B	C
		40	104	A	A		A	A			
		60	140	A	A		A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
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	A	A	A	A	A	A	A	B
		60	140	A	A	A	A	A	A	A	C
		80	176		A	A	A	A	A		X
		100	212				A	A			
		120	248				A	A			
Boric Acid H ₃ BO ₃	Satu	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	A	A	A	A	B	B
		100	212				A	A	B		
		120	248				A	A			
Boron Trichloride BCl ₃		20	68	A			A	A	A	A	A
		40	104	A			A	A	A	A	A
		60	140	A			A	A	A	A	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			
		40	104	A	A		A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				B	A			

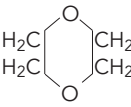
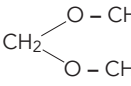
Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Bromine Vapor	25	20	68	B		X	A	A	A	X	X
		40	104	C			A	A	A		
		60	140				A	A	A		
		80	176				A	A			
		100	212				B	A			
		120	248				B	A			
Bromine Solution (Aqueous)	Satu	20	68	A	C	C	A	A	A	X	X
		40	104	B		X	A	A	A		
		60	140				A	A			
		80	176				A	A			
		100	212				B	A			
		120	248				B	A			
Butadiene CH ₂ =CHCH=CH ₂	Gas	20	68	A	A		A	A	A	X	B
		40	104	A	A		A	A	A		C
		60	140	A			A	A	A		
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Butane CH ₃ (CH ₂) ₂ CH ₃	Gas	20	68	A	A	A	A	A	A	X	A
		40	104	A	A	A	A	A	A		B
		60	140		A	A	A	A	A		
		80	176		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
		40	104	X	X	X	B	A		C	
		60	140				X	A		X	
		80	176								
		100	212								
		120	248								
Butyl Alcohol C ₄ H ₉ OH	Pure	20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	B	A	B
		60	140	B	A	A	A	A	C	A	B
		80	176		B	A	A	A		A	B
		100	212				A	A			
		120	248				A	A			
Butyl Amine C ₄ H ₉ NH ₂	Satu	20	68	X	X	X	B	A	A	X	A
		40	104				X	A			
		60	140					A			
		80	176								
		100	212								
		120	248								
Butyl Bromide C ₄ H ₉ Br	Pure	20	68				A	A			
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Butyl Carbitol O(CH ₂ CH ₂ OC ₄ H ₉) ₂ CH ₂ CH ₂ OH	Pure	20	68				A	A		A	A
		40	104				B	A			
		60	140				C	A			
		80	176								
		100	212								
		120	248								
Butyl Cellulosolve C ₄ H ₉ O(CH ₂) ₂ OH	Pure	20	68				A	A	X		X
		40	104				A	A			
		60	140				B	A			
		80	176				C	A			
		100	212				X				
		120	248								
Butyl Chloride CH ₃ (CH ₂) ₃ Cl	Pure	20	68	X	X	X	A	A	A	A	A
		40	104	B			A	A	A	A	A
		60	140				A	A	A	A	A
		80	176				A	A	A	A	A
		100	212				A	A	A	A	A
		120	248				A	A	A	A	A
Butyn Diol C ₄ H ₆ O ₂	Pure	20	68	A			A	A	A	A	A
		40	104	B			A	A	A	A	A
		60	140				A	A	A	A	A
		80	176				A	A	A	A	A
		100	212				A	A	A	A	A
		120	248				A	A	A	A	A
Butyl Ether C ₄ H ₉ OC ₄ H ₉	Pure	20	68	X	X	C	A	A	X	X	B
		40	104				A	A			
		60	140				C	A			
		80	176				X				
		100	212								
		120	248								
Butyl Mercaptan CH ₃ (CH ₂) ₃ SH	Pure	20	68				A	A			
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212								
		120	248								
Butyl Phenol  C(CH ₃) ₃	Pure	20	68	C	C	A	A	A	C	X	X
		40	104			B	A	A			
		60	140				A	A			
		80	176					A			
		100	212					A			
		120	248					A			
Butyl Phthalate C ₆ H ₄ (COOC ₄ H ₉) ₂	Pure	20	68				A	A	B	B	X
		40	104				A	B	A	B	
		60	140				A	C		X	
		80	176				X				
		100	212								
		120	248								
Butyl Stearate C ₁₇ H ₃₅ COOC ₄ H ₉	Pure	20	68				A	A	A	C	A
		40	104				A	A	A		B
		60	140				A	A	A		C
		80	176				A	A			
		100	212				A				
		120	248				A				
Butylene CH ₃ CH ₂ CH=CH ₂	Pure	20	68				A	A	A		
		40	104				A	A	A		
		60	140				A	A	A		
		80	176				A	A	B		
		100	212				A	A			
		120	248				A	A			
Butyric Acid CH ₃ CH ₂ CH ₂ COOH	Pure	20	68	B	B	A	A	A	A	B	X
		40	104				A	A	A	C	
		60	140				A	A	A	X	
		80	176				A	A	A		
		100	212				A	A			
		120	248				B	A			
Caffeine Citrate	Pure	20	68				A	A			
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A				
		120	248				A				
Calcium Acetate Ca(CH ₃ COO) ₂	Satu	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				B	A			

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Calcium Bisulfite (Calcium hydrogen sulfite) $\text{Ca}_2(\text{HCO}_3)_2$		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		
		80	176			A	A	A	A		
		100	212				A	A			
		120	248								
Calcium Bromide CaBr_2		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				A	A			
		100	212				A	A			
		120	248								
Calcium Carbonate CaCO_3	Satu	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	B
		80	176		A	A	A	A	A		
		100	212				A	A	A		
		120	248				A	A			
Calcium Chlorate $\text{Ca}(\text{ClO}_3)_2$	Satu	20	68	A	A	A	A	A	A	A	C
		40	104	A	A	A	A	A	A		
		60	140	A	A	A	A	A	A	A	
		80	176		A	A	A	A			
		100	212				A	A			
		120	248				A	A			
Calcium Chloride CaCl_2	Satu	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	B
		80	176		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Calcium Hydroxide $\text{Ca}(\text{OH})_2$	Satu	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	A	A	A	A	A	C
		100	212			B	A	A	A		
		120	248				A	A			
Calcium Hypochlorite $\text{Ca}(\text{ClO})_2$	Satu	20	68	A	A	A	A	A	A	B	C
		40	104	A	A	A	A	A	A	B	
		60	140	B	B	B	A	A	A	C	
		80	176		C	C	A	A	B	C	
		100	212				B	A	C		
		120	248								
Calcium Nitrate $\text{Ca}(\text{NO}_3)_2$		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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Calcium Sulfate CaSO_4	Satu	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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Calcium Sulfide CaS	Satu	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			A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Caprylic Acid $\text{CH}_3(\text{CH}_2)_6\text{COOH}$	Pure	20	68				A	A			
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Carbitol $\text{C}_2\text{H}_5(\text{OCH}_2\cdot\text{CH}_2)_2\text{OH}$		20	68	A			A	A	A	A	A
		40	104	B			B	A	B		C
		60	140				C	A	C		
		80	176					A			
		100	212					A			
		120	248								
Carbon Dioxide Gas CO_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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A	A		
Carbon Dioxide Gas CO_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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A	A		
Carbon Disulfide CS_2	Pure	20	68	C	C	X		A	A	X	C
		40	104	C	C			A	B		C
		60	140	X	X			A	C		X
		80	176					A	X		
		100	212					A			
		120	248								
Carbon Monoxide CO	Gas	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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Carbon Tetrachloride CCl_4	Pure	20	68	C	C	X	A	A	B	X	X
		40	104	X	X		A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A				
Carbonic Acid H_2CO_3	Satu	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	B
		100	212				A	A	B		
		120	248				A	A			
Casein		20	68				A	A	A	A	
		40	104				A	A	A	A	
		60	140				A	A	A	A	
		80	176				A	A	A	A	
		100	212				A	A			
		120	248				A	A			
Castor Oil	Pure	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		A	A	A	A	A		
		100	212				A	A			
		120	248				A	A			
Chloric Acid HClO_3	20	20	68	A		X	A	A	A	A	
		40	104	A			A	A		A	
		60	140	B			A	A			
		80	176				A	A			
		100	212								
		120	248								
Chlorine Dioxide ClO_2	8 gm/li	20	68	A	A	C	A	A	A		
		40	104	A	B	X	A	A			
		60	140	B	B		A	A			
		80	176				A	A			
		100	212					A			
		120	248					A			

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Chlorine Dioxide ClO ₂	14 gm/li	20	68	A	A	C	A	A	A		
		40	104	A	B	X	A	A			
		60	140	B	B		A	A			
		80	176				A				
		100	212				A				
		120	248				A				
Chlorine Gas Cl ₂	** Wet	20	68	A	A	X	A	A	X	X	
		40	104	A	B		A	A			
		60	140	B	C		A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Chlorine Gas (up to 150 ppm moisture) Cl ₂	Dry	20	68	A	A	X	A	A	B	B	
		40	104	A	A		A	A	C	X	
		60	140	A	A		A	A	X		
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Chlorine Solution (Chlorinated Water)	400 ppm	20	68	A	A	C	A	A	C	B	
		40	104	A	B	X	A	A	X	C	
		60	140	B	B		A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Chlorine Solution (Chlorinated Water)	3000 ppm	20	68	A	A	X	A	A			
		40	104	A	A		A	A			
		60	140								
		80	176								
		100	212								
		120	248								
Chlorobenzene (Monochlorobenzene) C ₆ H ₅ Cl	Pure	20	68	X	X	B	A	A	B	X	X
		40	104			C	A	A			
		60	140				A	A			
		80	176				B	A			
		100	212				B	A			
		120	248								
Chloroform (Trichloromethane) CHCl ₃	Pure	20	68	X	X	C	A	A	B	X	X
		40	104			X	A	A			
		60	140				B	A			
		80	176				C	A			
		100	212				X	A			
		120	248								
Chloro-sulfonic Acid HSO ₃ Cl	Pure	20	68	X	X	X	C	A	X	X	X
		40	104				X	A			
		60	140					A			
		80	176					A			
		100	212								
		120	248								
Chromic Acid Anhydride CrO ₃	10	20	68	A	A	X	A	A	A	B	X
		40	104	A	A		A	A	A	C	
		60	140	A	B		A	A	A	X	
		80	176		C		A	A	B		
		100	212				A	A	X		
		120	248								
Chromic Acid Anhydride CrO ₃	20	20	68	A	A	X	A	A	A	B	X
		40	104	A	B		A	A	A	X	
		60	140	B	C		A	A	A		
		80	176				A	A	B		
		100	212				A	A	C		
		120	248								
Chromic Acid Anhydride CrO ₃	30	20	68	C	C	X	A	A	A	X	X
		40	104	X	X		A	A	A		
		60	140				A	A	A		
		80	176				B	A	B		
		100	212				C	A	C		
		120	248								
Chromic Acid Anhydride CrO ₃	50	20	68	C	C	X	A	A	A	X	X
		40	104	X	X		A	A	A		
		60	140				A	A	B		
		80	176				B	A	C		
		100	212				A				
		120	248								
Chromic Potassium Alum KCr(SO ₄) ₂	Satu	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			A	A	A	A	B	B
		100	212				A	A	A		
		120	248				B				
Citric Acid CH ₂ COOH CH ₂ COOH CH ₂ COOH	10	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	B	B	A	A	A	A	A	A
		80	176		B	A	A	A	A	A	A
		100	212				A	A	A		
		120	248								
Coconut Oil		20	68	A	A	A	A	A	A	B	A
		40	104	A	A	A	A	A	A	B	A
		60	140	A	A	A	A	A	A		
		80	176		A	A	A	A			
		100	212				A	A			
		120	248				A	A			
Copper Acetate Cu(CH ₃ COO) ₂	Satu	20	68	A	A	A	A	A	A	A	A
		40	104				A	A	A	A	
		60	140				A	A	A		
		80	176				A	A			
		100	212				A	A			
		120	248					A			
Copper Borofluoride Cu(BF ₄) ₂		20	68	A	A	A	A	A	A	A	A
		40	104				A	A		A	
		60	140				A	A		A	
		80	176				A	A		A	
		100	212				A	A			
		120	248				A	A			
Copper Carbonate Cu ₂ CO ₃	Satu	20	68	A	A	A	A	A	A	A	A
		40	104	A			A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Copper Chloride CuCl ₂	Satu	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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Copper Cyanide CuCN	Satu	20	68	A	A		A	A	A	A	A
		40	104				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
		40	104	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		20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	B	B	A	A	A	A	A	A
		80	176			B	A	A	A	A	B
		100	212				A	A	A		
		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	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Copper Sulfate CuSO ₄	Satu	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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Corn Oil		20	68	A	A	A	A	A	A	B	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		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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Cottonseed Oil		20	68	A	A	A	A	A	A	A	A
		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		20	68	X	X	A	A	A	A	X	A
		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
		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
		40	104				A	A			
		60	140					A			
		80	176					A			
		100	212					A			
		120	248								
Cryolite Na ₃ AlF ₆		20	68	B	B	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			
Cupric Fluoride CuF ₂	Satu	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	A	A			
		100	212				A	A			
		120	248				A	A			
Cuprous Chloride CuCl	Satu	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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Cyclohexane C ₆ H ₁₂	Pure	20	68	X	X	C	A	A	A	X	B
		40	104			X	A	A	A		
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Cyclohexanol C ₆ H ₁₁ OH	Pure	20	68	X	X	A	A	A	A	A	C
		40	104			B	A	A	A	A	
		60	140			C	A	A	A		
		80	176			X	B	A			
		100	212				C	A			
		120	248								
Cyclohexanone C ₆ H ₁₀ O	Pure	20	68	X	X	B	A	A		X	X
		40	104			C	A	A			
		60	140			X	B	A			
		80	176				A				
		100	212				A				
		120	248								
Decalin C ₁₀ H ₁₈	Pure	20	68			X	A	A	A	X	X
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A				
		120	248				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	A			
		100	212				A				
		120	248				A				
Dextrine (C ₆ H ₁₂ O ₅) _n	Satu	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			A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Dextrose (Glucose) C ₆ H ₁₂ O ₆		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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Diacetone Alcohol (CH ₃) ₂ C(OH)CH ₂ -COCH ₃	Pure	20	68			A	A	A	X	A	X
		40	104			B	B	A			
		60	140				B	A			
		80	176				C	A			
		100	212				X	A			
		120	248								
Dibenzyl Ether C ₆ H ₅ CH ₂ O-CH ₂ C ₆ H ₅	Pure	20	68				A	A		C	X
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212					A			
		120	248					A			
Dibutyl Amine (C ₄ H ₉) ₂ NH	Pure	20	68				A	A			
		40	104				C	A			
		60	140				X	A			
		80	176				A				
		100	212								
		120	248								
Dibutyl Ether (C ₄ H ₉) ₂ O	Pure	20	68	X	X	C	A	A	X	X	B
		40	104				A	A			
		60	140				C	A			
		80	176				X	A			
		100	212								
		120	248								
Dibutyl Phthalate C ₆ H ₄ (COOC ₄ H ₉) ₂	Pure	20	68	X		B	A	A	B	A	X
		40	104				B	A			
		60	140				C	A			
		80	176				A				
		100	212				A				
		120	248				A				

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Dibutyl Sebacate $\text{H}_9\text{C}_4\text{OOC}(\text{CH}_2)_8\text{-COOC}_4\text{H}_9$		20	68				A	A	C	C	X
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212					A			
		120	248					A			
Dichloro-acetic Acid Cl_2CHCOOH		20	68	A		B	A	A	X	C	X
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212					A			
		120	248								
Dichloro-benzene $\text{C}_6\text{H}_4\text{Cl}_2$	Pure	20	68	X			A	A	B	X	X
		40	104				A	A			
		60	140				A	A			
		80	176					A			
		100	212					A			
		120	248					A			
Dichloro-ethylene $\text{CH}_2=\text{CCl}_2$		20	68	X			A	A	B	X	X
		40	104				A	A			
		60	140				A	A			
		80	176					A			
		100	212					A			
		120	248					A			
Dichloro-isopropyl Ether $\text{Cl-CH}_2\text{-CH(O-CH(CH}_3\text{)-CH}_2\text{-C(CH}_3\text{)}_3\text{)-O-CH(CH}_3\text{)-CH}_2\text{-C(CH}_3\text{)}_3$	Pure	20	68				A	A			
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212								
		120	248								
Diethylamine $(\text{C}_2\text{H}_5)_2\text{NH}$	Pure	20	68	X	X	A	B	A		A	X
		40	104			B	C	A			
		60	140				X	A			
		80	176					A			
		100	212					A			
		120	248								
Diethylene-triamine $\text{H}_2\text{N}(\text{CH}_2\text{CH}_2\text{NH})_2\text{H}$		20	68	X	X		A	A			
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212								
		120	248								
Diethylether $\text{C}_2\text{H}_5\text{OC}_2\text{H}_5$	Pure	20	68	X	X	C	A	A	C	C	C
		40	104			X	B	A			
		60	140				C	A			
		80	176				X	A			
		100	212					A			
		120	248								
Diglycolic Acid $(\text{HO}_2\text{CCH}_2)_2\text{O}$	Satu	20	68	A	A	A	A	A	A	A	A
		40	104	A		A	A	A			
		60	140			A	A	A			
		80	176				A	A			
		100	212					A			
		120	248								
Diisobutyl Ketone $[(\text{CH}_3)_2\text{CHCH}_2]_2\text{CO}$	Pure	20	68	X	X	A	A	A	X	X	B
		40	104				A	A			
		60	140				B	A			
		80	176				X	A			
		100	212								
		120	248								
Diisobutylene C_8H_{16}	Pure	20	68	X	X		A	A	A	X	A
		40	104				A	A	A		
		60	140				A	A	A		
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Diisopropyl Ketone $[(\text{CH}_3)\text{CH}]_2\text{CO}$	Pure	20	68	X	X		X	X	B	X	X
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Dimethyl Acetamide $\text{CH}_3\text{CON}(\text{CH}_3)_2$		20	68	X	X	X	X	A			
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Dimethyl Amine $(\text{CH}_3)_2\text{NH}$	Pure	20	68	X	X	A	B	A	X	C	X
		40	104					A			
		60	140					A			
		80	176					A			
		100	212								
		120	248								
Dimethyl-aniline $\text{C}_6\text{H}_3(\text{CH}_3)_2\text{-(NH}_2\text{)}$	Pure	20	68	X	X		A	A		X	X
		40	104					B	A		
		60	140					C	A		
		80	176					X	A		
		100	212								
		120	248								
Dimethyl Ether $(\text{CH}_3)_2\text{O}$		20	68				A	A	X	X	B
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Dimethyl-formamide $\text{HCON}(\text{CH}_3)_2$	Pure	20	68	X	X	A	X	A	A	A	X
		40	104				A	A			
		60	140				B	A			
		80	176					A			
		100	212					A			
		120	248								
Dimethyl Phthalate $\text{C}_6\text{H}_4(\text{COOCH}_3)_2$		20	68	X	X	B	B	A	B	B	X
		40	104			B	C	A			
		60	140				X	A			
		80	176								
		100	212								
		120	248								
Dimethyl Sulfoxide (DMP) $(\text{CH}_3)_2\text{SO}$		20	68				X	A			
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Diocetyl Phthalate (DOP) $\text{C}_6\text{H}_4(\text{COOC}_8\text{H}_{17})_2$		20	68	X	X		A	A	A	A	B
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212					A			
		120	248								
Dioxane 	Pure	20	68	X	X	B	C	A	X	X	X
		40	104				C	A			
		60	140				X	A			
		80	176								
		100	212								
		120	248								
Dioxolane 		20	68	X	X		X	A	X	X	X
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Diphenyl Oxide <chem>C6H5OC6H5</chem>	Satu	20	68	X	X			A	A		X
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Disodium Hydrogen Ortho Phosphate <chem>Na2HPO4·12H2O</chem>		20	68	A	A		A	A			
		40	104	A	A		A	A			
		60	140	A	A		A	A			
		80	176		A		A	A			
		100	212				A	A			
		120	248				A	A			
Epichlorohydrin <chem>CH2-CH-CH2Cl</chem> 	Pure	20	68	X	X	X	C	A	X	X	X
		40	104				X	A			
		60	140								
		80	176								
		100	212								
		120	248								
Ethanolamine (Monoethanolamine) <chem>H2NCH2CH2OH</chem>	Pure	20	68	X	X		X	A		A	A
		40	104					A			
		60	140								
		80	176								
		100	212								
		120	248								
Ethyl Acetate <chem>CH3COOC2H5</chem>	Pure	20	68	X	X	B	B	A	X	B	X
		40	104			B	C	A			
		60	140			C		A			
		80	176					A			
		100	212					A			
		120	248								
Ethyl Acetoacetate <chem>CH3COCH2-COOC2H5</chem>	Pure	20	68	X	X	X	A	A	X	A	X
		40	104				B	A		A	
		60	140				C	A			
		80	176				X	A			
		100	212					A			
		120	248								
Ethyl Acrylate <chem>H2CCH-COOC2H5</chem>	Pure	20	68	X	X		A	A	X	B	X
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212					A			
		120	248					A			
Ethyl Alcohol <chem>C2H5OH</chem>	Pure	20	68	A	A	A	A	A	A	A	A
		40	104	A	B	A	A	A	A	A	A
		60	140	B	B	B	A	A	A	A	A
		80	176		C	B	A	A	A	A	B
		100	212				A	A			
		120	248				A	A			
Ethyl Benzene <chem>C2H5C2H5</chem>		20	68	X	X		A	A	A	X	C
		40	104				A	A			
		60	140				A	A			
		80	176					A			
		100	212					A			
		120	248					A			
Ethyl Chloride <chem>C2H5Cl</chem>		20	68	X	X	C	A	A	A	A	B
		40	104			X	A	A	A	A	
		60	140				A	A	A		
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Ethyl Ether <chem>(C2H5)2O</chem>	Pure	20	68	X	X	C	A	A	C	C	C
		40	104			X	B	A			
		60	140				C	A			
		80	176				X	A			
		100	212					A			
		120	248								
Ethyl Formate <chem>HCOOC2H5</chem>	Pure	20	68								
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
2-Ethyl Hexanol <chem>CH3(CH2)3CH(C2H5)CH2OH</chem>		20	68								
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Ethyl Mercaptan <chem>C2H5-SH</chem>	Pure	20	68								
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Ethyl Monochloroacetate <chem>ClCH2COOC2H5</chem>	Pure	20	68								
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Ethyl Oxalate <chem>(COOC2H5)2</chem>		20	68								
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Ethylene Bromide <chem>CH2Br-CH2Br</chem>	Pure	20	68	X	X						
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Ethylene Chloride (Ethylene Dichloride) <chem>ClCH2CH2Cl</chem>		20	68	X	X	B	A	A	A	X	X
		40	104			X	A	A			
		60	140				A	A			
		80	176				A	A			
		100	212					A			
		120	248					A			
Ethylene Chlorohydrin <chem>ClCH2-CH2OH</chem>	Pure	20	68	X	X	A	B	A	X	A	X
		40	104				C	A			
		60	140					A			
		80	176					A			
		100	212								
		120	248								
Ethylene Diamine <chem>NH2CH2CH2NH2</chem>	Pure	20	68	X	X	B	X	A		A	A
		40	104					A			
		60	140					A			
		80	176					A			
		100	212					A			
		120	248								
Ethylene Glycol <chem>HOCH2-CH2OH</chem>	Pure	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	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Ethylene Glycol Monoethyl Ether <chem>HOCH2-CH2OH</chem>	Pure	20	68			A	A	A	C		C
		40	104			A	A	A	X		X
		60	140				A	A			
		80	176				A	A			
		100	212					A			
		120	248								

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Ethylene Oxide $\text{CH}_2 \text{---} \text{CH}_2$ $\quad \quad \quad \backslash \quad /$ $\quad \quad \quad \text{O}$	Pure	20	68	X	X		B	A	X	X	X
		40	104				C	A			
		60	140				C	A			
		80	176				X	A			
		100	212								
		120	248								
Fatty Acids RCOOH		20	68	A	B	A	A	A	A	X	A
		40	104	A	B	B	A	A			
		60	140	A	B	B	A	A			
		80	176			C	A	A			
		100	212				A	A			
		120	248				A	A			
Ferrous Chloride FeCl_2	Satu	20	68	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	A
		80	176		A	A	A	A	A	A	B
		100	212				A	A	B		
		120	248				A	A			
Ferric Hydroxide Fe(OH)_3	Satu	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		A	A	A	A	A	A	B
		100	212				A	A			
		120	248				A	A			
Ferric Nitrate $\text{Fe(NO}_3)_3$	Satu	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		A	B	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Ferric Sulfate $\text{Fe}_2(\text{SO}_4)_3$		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		A	A	A	A	A	A	
		100	212				A	A			
		120	248				A	A			
Ferric Sulfide Fe_2S_3		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	B
		100	212				A	A			
		120	248				A	A			
Ferric Chloride FeCl_3	Satu	20	68	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	A
		80	176		A	A	A	A	A	A	B
		100	212				A	A	B		
		120	248				A	A			
Ferrous Hydroxide Fe(OH)_2	Satu	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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Ferrous Nitrate $\text{Fe(NO}_3)_2$	Satu	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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Ferrous Sulfate FeSO_4		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		A	A	A	A	A	A	B
		100	212				A	A	B		
		120	248				A	A			
Fluoboric Acid HBF_4	Pure	20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	A	A
		60	140	B	A	A	A	A	A	A	A
		80	176		B	B	A	A	A	A	B
		100	212				A	A			
		120	248				A	A			
Fluorine Gas F_2	Wet	20	68	A		X	A	A	A	A	
		40	104	B			A	A	A	A	
		60	140	X			A	A	A	B	B
		80	176					A			
		100	212					A			
		120	248					A			
Fluorosilicic Acid (Hydrofluoro-silicic Acid) H_2SiF_6	50	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	B
		60	140	B	B	A	A	A	A	A	B
		80	176		C	B	A	A	A	B	B
		100	212				A	A	A		
		120	248				A	A			
Formaldehyde HCHO	35	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	C	B	A	B	A	A	A	A
		80	176			B	X	A	A	A	
		100	212					A			
		120	248					A			
Formaldehyde HCHO	37	20	68	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	A
		60	140	C	B	A	B	A	A	A	A
		80	176			B	X	A	A	A	
		100	212					A			
		120	248					A			
Formaldehyde HCHO	50	20	68	A	A	A	A	A	B	A	
		40	104	A	A	A	A	A			
		60	140	C	B	A	B	A			
		80	176			B	X	A			
		100	212					A			
		120	248					A			
Formic Acid HCOOH	90	20	68	A	A	A	A	A	X	A	X
		40	104	B	B	B	A	A		A	
		60	140	X	X	X	A	A		A	
		80	176				A	A		A	
		100	212				B	A			
		120	248				C	A			
Freon F-11 CCl_3F		20	68	A			A	A	B	C	X
		40	104	A			A	A			
		60	140	A			A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Freon F-12 CCl_2F_2		20	68	A			A	A	B	B	C
		40	104	A			A	A			
		60	140	A			A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Freon F-21 CHCl_2F		20	68	X			A	A	C	C	X
		40	104				A	A	X		
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Freon F-22 CHClF_2		20	68	X			A	A	X	B	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	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Freon F-113 CClF ₂ -CCl ₂ F		20	68	B			A	A	B	X	X
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Freon F-114 CClF ₂ -CClF ₂		20	68	B			A	A	A	C	B
		40	104				A	A	A		
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Fructose CH ₂ OH CO (CHOH) ₃ CH ₂ OH		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			A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Fruit Juice	Pure	20	68	A		A	A	A	A	A	
		40	104	A		A	A	A	A	A	
		60	140	A		A	A	A	A	A	
		80	176			A	A	A	A	A	
		100	212				A	A			
		120	248				A	A			
Furan CH = CH CH = CH O		20	68				C	A	X	X	X
		40	104				X	A			
		60	140								
		80	176								
		100	212								
		120	248								
Furfural C ₄ H ₃ OCHO	Pure	20	68	X	X	C	B	A	B	A	X
		40	104			X	B	A	B	A	
		60	140				C	A	C	A	
		80	176				X	A			
		100	212					A			
		120	248					A			
Furfuryl Alcohol C ₄ H ₃ OCH ₂ OH	Pure	20	68	X	X		A	A	X	C	X
		40	104				A	A			
		60	140				B	A			
		80	176				X	A			
		100	212								
		120	248								
Gallic Acid C ₆ H ₂ (OH) ₃ COOH		20	68				A	A	A	A	A
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212					A			
		120	248					A			
Gasoline - Regular*		20	68	B		C	A	A	B	X	B
		40	104	B		X	A	A	B		B
		60	140				A	A	B		B
		80	176				A	A			
		100	212					A			
		120	248					A			
Gasoline - Sour		20	68	B		C	A	A	B	X	B
		40	104	B		X	A	A			
		60	140				A	A			
		80	176				A	A			
		100	212					A			
		120	248					A			
Gelatin & Glue		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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Glycerol (Glycerine) C ₃ H ₅ (OH) ₃	Pure	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
		80	176				A	A	A	A	A
		100	212					A	A		
		120	248					A	A		
Glycolic Acid HOCH ₂ COOH	Satu	20	68				A	B	A	A	A
		40	104				A	X	A		
		60	140				A	X	A		
		80	176					X	A		
		100	212						A		
		120	248								
Heptane CH ₃ (CH ₂) ₅ CH ₃		20	68	A			A	A	A	X	A
		40	104	A			B	A	A	A	
		60	140	B			C	A	A	A	
		80	176					A	A		
		100	212					A	A		
		120	248					A	A		
Hexane CH ₃ (CH ₂) ₄ CH ₃		20	68	A	A		A	A	A	A	X
		40	104	B			B	A	A		
		60	140				C	A	A		
		80	176					A	A		
		100	212					A	A		
		120	248					A	A		
Hexyl Alcohol CH ₃ (CH ₂) ₅ OH	Pure	20	68	A	A		A	A	A	B	A
		40	104	A				A	A	B	A
		60	140	B				A	A	C	B
		80	176					B	A	A	X
		100	212						A	A	
		120	248						A	B	
Hydrazine H ₂ N-NH ₂	Pure	20	68	X	X	C	C	A	X	A	A
		40	104			X	C	A			
		60	140				X	A			
		80	176					A			
		100	212					A			
		120	248								
Hydrobromic HBr	20	20	68	A	A		A	A	A	A	C
		40	104	A	A		A	A	A	A	C
		60	140	B	B		A	A	A	A	X
		80	176		B		A	A	A	B	B
		100	212					A	A		
		120	248					B	A		
Hydrobromic Acid HBr	47	20	68	A	A		A	A	A	A	
		40	104	A	A		A	A	A	A	
		60	140	B	B		A	A	A		
		80	176		B		A	A	A		
		100	212					A	A		
		120	248					B	A		
Hydrochloric Acid HCl	25	20	68	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
		80	176		A		A	A	A	B	X
		100	212					A	A	C	B
		120	248					B	A		
Hydrochloric Acid HCl	35	20	68	A	A		A	A	A	B	B
		40	104	A	A		A	A	A	X	B
		60	140	B	A		A	A	A	X	X
		80	176		B		B	A	A		B
		100	212					A	A		
		120	248					C	A		
Hydrochloric Acid HCl	38	20	68	A	A		A	A	A	B	C
		40	104	A	A		A	A	A	X	C
		60	140	B	B		A	A	A	X	X
		80	176		B		B	A	A		
		100	212					B	A		
		120	248					C	A		

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

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

Hydrofluorosilicic Acid - See Fluorosilicic Acid, page 15

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	FKM-F	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F											°C	°F								
Hydrocyanic Acid HCN		20	68	A	A	A	A	A	A	A		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	A	Hydroiodic Acid HI		20	68	A	A	A	A	A	A	A	A
		40	104	A	B	A	A	A	A	A	A			40	104	A	A	A	A	A	A	A	A
		60	140	C	B	A	A	A	A	A	A			60	140				A	A			
		80	176		C	A	A	A	A	A	A			80	176				A	A			
		100	212			B	A	A	A		A			100	212				A	A			
		120	248								A			120	248				A	A			
Hydrofluoric Acid HF	30	20	68	A	A	A	A	A	A	A	A	Hydroquinone C ₆ H ₄ (OH) ₂	Satu	20	68	A		A	A	A	A	A	B
		40	104	B	B	A	A	A	A	A	A			40	104	A		A	A	A	A		
		60	140	C	C	A	A	A	A	A	A			60	140	A		A	A	A			
		80	176	X	X	B	A	A	B	B	A			80	176			A	A	A			
		100	212				A	A			B			100	212				A	A			
		120	248											120	248				A	A			
Hydrofluoric Acid HF	40	20	68	B	B	A	A	A	A	A	A	Hypochlorous Acid HClO	10	20	68	A	A	A	A	A	A	A	C
		40	104	C	C	A	A	A	A	A	A			40	104	A	A	B	A	A	A	B	
		60	140	X	X	A	A	A	A	B	A			60	140	A	A		A	A	A		
		80	176			B	A	A	B	C	A			80	176		B		A	A	B		
		100	212				A	A			B			100	212				A	A			
		120	248											120	248				B	A			
Hydrofluoric Acid HF	55	20	68	B	B	A	A	A	A	A	A	Iodine I ₂		20	68	C		A	A	A	B	X	
		40	104	C	X	A	A	A	A	B	A			40	104	X			A	A			
		60	140	X		A	A	A	A	C	A			60	140				A	A			
		80	176			B	A	A	B	X	A			80	176				A	A			
		100	212				A	A			B			100	212					A			
		120	248											120	248					A			
Hydrogen H ₂		20	68	A	A	A	A	A	A	A	NITRILE	Isobutyl Alcohol (CH ₃) ₃ CHCH ₂ OH	Pure	20	68	A		A	A	A	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				60	140			A	A	A			
		80	176		A	A	A	A	A	A				80	176				A	A			
		100	212					A						100	212				A	A			
		120	248					A						120	248					A			
Hydrogen Fluoride (Anhydrous) HF		20	68			A	A	A	X	B	X	Iso-octane (CH ₃)CCH ₂ CH(CH ₃) ₂		20	68	A		A	A	A	A	X	A
		40	104				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	A						100	212				A	A			
		120	248				A	A						120	248					A			
Hydrogen Peroxide H ₂ O ₂	20	20	68	A	A	A	A	A	A	A	X	Isophorone C ₉ H ₁₄ O	Pure	20	68					A	X	X	X
		40	104	A	A	A	A	A	A	B				40	104					A			
		60	140	B	B	A	A	A	A	B				60	140					A			
		80	176		B	B	A	A	A	C				80	176								
		100	212				A	A						100	212								
		120	248					A						120	248								
Hydrogen Peroxide H ₂ O ₂	35	20	68	A	B	A	A	A	A	B	X	Isopropyl Acetate (CH ₃)COOCH(CH ₃) ₂	Pure	20	68					A	X	B	X
		40	104	B	C	B	A	A	A	C				40	104					A			
		60	140	C	X	B	A	A	C	X				60	140					A			
		80	176			C	A	A						80	176					A			
		100	212				A	A						100	212					A			
		120	248					A						120	248								
Hydrogen Peroxide H ₂ O ₂	50	20	68	B	C	C	A	A	C	X	X	Isopropyl Alcohol (CH ₃) ₂ CHOH	Pure	20	68	A	A	A	A	A	A	A	A
		40	104	C	X	X	A	A	X					40	104	A	A	A	A	A	A	A	B
		60	140				A	A						60	140	A	A	A	A	A	A		
		80	176				A	A						80	176				A	A	A		
		100	212					A						100	212					A	B		
		120	248					A						120	248					A			
Hydrogen Sulfide Gas H ₂ S	Dry	20	68	A	A	A	A	A	A	A	A	Isopropyl Chloride (CH ₃) ₂ CHCl		20	68				A	A	A	X	B
		40	104	A	A	A	A	A	A	A	A			40	104				A	A			
		60	140	A	A	A	A	A	A	A	A			60	140				B	A			
		80	176		B	A	A	A	A	B	B			80	176				C	A			
		100	212				A	A	A					100	212					A			
		120	248				A	A						120	248								

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

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Isopropyl Ether (CH ₃) ₂ CHO -CH(CH ₃) ₂	Pure	20	68				A	A	C	C	B
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212								
		120	248								
Jet Fuel JP-4		20	68	A		B	A	A	A	X	B
		40	104	A		X	A	A			
		60	140	B			A	A			
		80	176				A	A			
		100	212				B	A			
		120	248				A				
Jet Fuel JP-5		20	68			B	A	A	A	X	A
		40	104	A		X	A	A			
		60	140	B			A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A				
Kerosene		20	68	B		A	A	A	A	X	A
		40	104	B		C	A	A			
		60	140	C		X	A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				B	A			
Lacquer (Nitroselrouse lacquer)		20	68	X		A	A	A	C	X	X
		40	104					A			
		60	140					A			
		80	176					A			
		100	212					A			
		120	248								
Lactic Acid CH ₃ CH(OH)COOH	25	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	B
		60	140	A	A	A	A	A	A	A	C
		80	176		B	A	A	A	A	A	
		100	212				A	A	A		
		120	248				A	A			
Lactic Acid CH ₃ CH(OH)COOH	80	20	68	A	A	A	A	A	A	A	A
		40	104	B	A	A	A	A	A	A	B
		60	140		B	A	A	A	A	A	C
		80	176			B	A	A	A	A	
		100	212				B	A	B		
		120	248				A				
Lard (Animal Oil)		20	68	A	A	A	A	A	A	A	A
		40	104				A	A	A	A	A
		60	140				A	A	A	A	A
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Lauric Acid CH ₃ (CH ₂) ₁₀ COOH		20	68	A		A	A	A	A		
		40	104	A			A	A			
		60	140			A	A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A				
Lauroyl Chloride CH ₃ (CH ₂) ₁₀ COCl	Pure	20	68				A	A			
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A				
Lead Acetate Pb(CH ₃ COO) ₂	Satu	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	B	A	A
		80	176		A	A	A	A	B	A	B
		100	212				A	A			
		120	248				A	A			
Lead Chloride PbCl ₂		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				A	A	A	A	A
		100	212					A	A	A	
		120	248					A	A		
Lead Nitrate Pb(NO ₃) ₂	Satu	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		A	A	A	A	A	A	A
		100	212					A	A	A	
		120	248								
Lead Sulfate PbSO ₄		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		A	A	A	A	A	A	A
		100	212					A	A	A	
		120	248					A	A		
Lemon Oil		20	68				C	A	A	A	C
		40	104				X	A	A		
		60	140					A	A		
		80	176					A	A		
		100	212					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
		40	104	A			A	A			
		60	140	B			A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Linoleic Oil		20	68	A			A	A	A		
		40	104	A			A	A	B		
		60	140	B			A	A	X		
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Linseed Oil		20	68	A	A	A	A	A	A	B	A
		40	104	A	A	A	A	A	A		
		60	140	A	A	A	A	A			
		80	176			B	A	A			
		100	212				A	A			
		120	248				A	A			
Lithium Bromide LiBr	60	20	68	A			A	A	A		A
		40	104	A			A	A	A	A	A
		60	140	A			A	A	A	A	A
		80	176			B	A	A	A		A
		100	212				A	A	A		
		120	248				A	A			
Lithium Chloride LiCl	Satu	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
		80	176			A	A	A	A		A
		100	212				A	A			
		120	248				B	A			
Lithium Hydroxide LiOH		20	68	A			A	A	A	A	A
		40	104	A			A	A	A	A	A
		60	140	A			A	A	A	A	A
		80	176			A	A	A			
		100	212				A	A			
		120	248					A			
Liquor (Gin, Whiskey, etc.)		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
		80	176				A	A	A	A	A
		100	212					A	A		
		120	248					A			

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Magnesium Carbonate MgCO ₃		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	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Magnesium Chloride MgCl ₂	Satu	20	68	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	A
		80	176		B	A	A	A	A	A	A
		100	212				A	A	B		
		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
		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	B
		100	212				A	A	A		
		120	248				A	A			
Magnesium Fluoride MgF ₂	Satu	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			A	A	A	A	A	
		100	212				A	A	A		
		120	248				A				
Magnesium Hydroxide Mg(OH) ₂	Satu	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
		80	176			A	A	A	A	A	A
		100	212				B	A	A		
		120	248				B	A			
Magnesium Nitrate Mg(NO ₃) ₂		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			A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Magnesium Sulfate (Epsom Salts) MgSO ₄		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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Maleic Acid HOOCCH ₂ COOH		20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	B	B
		60	140	B	A	A	A	A	B	B	
		80	176		A	A	A	A	B		
		100	212				A	A			
		120	248				A	A			
Malic Acid HOOCCH ₂ CH(OH)COOH	Satu	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	B	A	A
		80	176		A	A	A	A		A	B
		100	212				A	A			
		120	248				A	A			
Manganese Chloride MnCl ₂		20	68	A		A	A	A	A	A	A
		40	104	A		A	A	A	A	A	A
		60	140	B		A	A	A	A	A	A
		80	176			B	A	A	A		
		100	212				A	A			
		120	248				A	A			
Manganese Sulfate MnSO ₄		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	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Mercuric Chloride HgCl ₂		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			A	A	A	A		
		100	212				A	A			
		120	248				A	A			
Mercuric Cyanide Hg(CN) ₂	Satu	20	68	A		A	A	A	A	A	A
		40	104	A		A	A	A	A	A	
		60	140	A		A	A	A	A	A	
		80	176			A	A	A	A		
		100	212				A	A			
		120	248				A	A			
Mercuric Nitrate Hg(NO ₃) ₂		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	
		80	176				A	A	A		
		100	212					A			
		120	248								
Mercuric Sulfate HgSO ₄	Satu	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		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
		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
		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
		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	A	B
		100	212				A	A	B		
		120	248				A	A			
Methane Sulfonic Acid CH ₃ SO ₃ H	50	20	68				A	A			
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A				
		120	248				A				
Methyl Acetate CH ₃ COOCH ₃	Pure	20	68	X	X	B	A	A	X	B	X
		40	104				B	A		C	
		60	140								
		80	176				C	A			
		100	212				X	A			
		120	248					A			
Methyl Acrylate CH ₂ CHCOOCH ₃	Pure	20	68				A	A	X	B	X
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212					A			
		120	248					A			
Methyl Alcohol CH ₃ OH	Pure	20	68	A	A	A	A	A	B	A	A
		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			

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Methyl Amine CH ₃ NH ₂		20	68	X	X	B	C	A	A	A	C
		40	104				X	A			
		60	140					A			
		80	176					A			
		100	212					A			
Methyl Bromide CH ₃ Br		20	68	C		X	A	A	A	B	X
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
Methyl Cellosolve HOCH ₂ CH ₂ OCH ₃		20	68	A		A	A	A		B	
		40	104				A	A			
		60	140				A	A			
		80	176								
		100	212								
Methyl Chloride CH ₃ Cl		20	68	X		C	A	A	C	B	X
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
Methyl Chloroform CH ₃ CCl ₃		20	68	X		C	A	A	B	X	X
		40	104				B	A			
		60	140					A			
		80	176					A			
		100	212					A			
Methyl Ethyl Ketone (MEK) CH ₃ -CO-C ₂ H ₅		20	68	X	X	A	X	A	X	B	X
		40	104			C		A		C	
		60	140			X		A			
		80	176					A			
		100	212					B			
Methyl Formate HCOOCH ₃		20	68				A	A	X	B	X
		40	104				B	A			
		60	140				C	A			
		80	176				C	A			
		100	212								
Methyl Isobutyl Carbinol (CH ₃) ₂ CHCH ₂ CH ₂ -(OH)CH ₃		20	68			A	A	A			
		40	104			A	A	A			
		60	140				B	A			
		80	176				B	A			
		100	212					A			
Methyl Isobutyl Ketone (CH ₃) ₂ CHCH ₂ -COCH ₃		20	68	X	X	A	X	A	X	B	X
		40	104					A			
		60	140					A			
		80	176					A			
		100	212					A			
Methyl Isopropyl Ketone (CH ₃) ₂ CHCOCH ₃		20	68				X	A		X	
		40	104	X							
		60	140					A			
		80	176					A			
		100	212					A			
Methyl Methacrylate CH ₂ C(CH ₃)-COOCH ₃		20	68				A	A	X	X	X
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212								
Methyl Monochloroacetate ClCH ₂ COOCH ₃		20	68								
		40	104								
		60	140								
		80	176								
		100	212								
Methyl Salicylate C ₆ H ₄ (OH)COOCH ₃		20	68				A	A	A	X	X
		40	104								
		60	140								
		80	176								
		100	212								
Methylene Bromide CH ₂ Br ₂		20	68				A	A	A	X	X
		40	104								
		60	140								
		80	176								
		100	212								
Methylene Chloride CH ₂ Cl ₂		20	68				A	A	A	X	X
		40	104								
		60	140								
		80	176								
		100	212								
Methylene Iodine CH ₂ I ₂		20	68				A	A	A		
		40	104								
		60	140								
		80	176								
		100	212								
Monochloroacetic acid ClCH ₂ COOH		20	68				A	A	A		
		40	104								
		60	140								
		80	176								
		100	212								
Monochlorobenzene C ₆ H ₅ Cl		20	68	X	X	B	A	A	B	X	X
		40	104			C	A	A			
		60	140				A	A			
		80	176				B	A			
		100	212				B	A			
Monoethanolamine (Ethanalamine) H ₂ NCH ₂ CH ₂ OH		20	68	X	X		X	A		A	A
		40	104					A			
		60	140								
		80	176								
		100	212								
Monomethylaniline C ₆ H ₅ NHCH ₃		20	68				A	A	A	X	X
		40	104				B	A			
		60	140				X	A			
		80	176					A			
		100	212								
Morpholine O(CH ₂ CH ₂) ₂ NH		20	68	X	X	A	A	A	A	C	X
		40	104				A	A	A		
		60	140				A	C	A		
		80	176					A			
		100	212								
Naphtha		20	68	A		A	A	A	A	X	B
		40	104			B	A	A			
		60	140			C	A	A			
		80	176				A	A			
		100	212				A	A			

** Methylene Chloride: PP & Viton® recommended at 1 gm/litre concentration.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Naphthalene C ₁₀ H ₈		20	68	X		B	A	A	A	X	X
		40	104				A	A	A		
		60	140				A	A	A		
		80	176				A	A	A		
		100	212				A	A			
		120	248				A	A			
Natural Gas		20	68	A			A	A	A	A	A
		40	104	A			A	A			
		60	140	B			A	A			
		80	176				A	A			
		100	212				A				
		120	248				A				
Nickel Acetate (CH ₃ CO ₂) ₂ Ni	Satu	20	68	A	A	A	A	A	C	A	A
		40	104	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	A			
Nickel Dichloride NiCl ₂	Satu	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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Nickel Nitrate Ni(NO ₃) ₂	Satu	20	68	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
		80	176			A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A	A		
Nickel Sulfate NiSO ₄	Satu	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	A
		100	212				A	A	B		
		120	248				A	A			
Nicotine C ₁₀ H ₁₄ N ₂		20	68	A		A	A	A			
		40	104	A		A	B	A			
		60	140	A				A			
		80	176					A			
		100	212					A			
		120	248					A			
Nicotinic Acid C ₃ H ₄ NCOOH		20	68	A		A	A	A		A	
		40	104	A		A	A	A			
		60	140	A		A	A	A			
		80	176			A	A	A			
		100	212				A	A			
		120	248				A	A			
Nitric Acid HNO ₃	10	20	68	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	B	
		80	176		B	B	A	A	A	X	
		100	212				A	A	A		
		120	248				A	A			
Nitric Acid HNO ₃	30	20	68	A	A	A	A	A	A	B	A
		40	104	A	B	A	A	A	A	B	A
		60	140	B	C	B	A	A	B	X	A
		80	176		X	B	A	A	C		A
		100	212				A	A	C		B
		120	248				B	A			
Nitric Acid HNO ₃	50	20	68	A	A	A	A	A	A	X	A
		40	104	B	B	B	A	A	B		A
		60	140	B	C	C	A	A	C		B
		80	176		X	X	A	A	X		C
		100	212				C	A			X
		120	248				A				
Nitric Acid HNO ₃	70	20	68	A	B	C	A	A	C	X	A
		40	104	B	C	X	A	A	X		A
		60	140	C	X		B	A			B
		80	176				C	A			
		100	212				X	A			
		120	248								
Nitric Acid HNO ₃	98	20	68	X	X	X	A	A	X	X	X
		40	104				B	B			
		60	140				X	B			
		80	176					C			
		100	212					C			
		120	248								
Nitrobenzene C ₆ H ₅ NO ₂		20	68	X	X		A	B	A	B	B
		40	104				B	C	A		
		60	140				C	X	A		
		80	176						A		
		100	212						A		
		120	248						A		
Nitroethane CH ₃ CH ₂ NO ₂	Pure	20	68					A		X	A
		40	104					A			
		60	140					A			
		80	176					A			
		100	212								
		120	248								
Nitrogen Dioxide NO ₂		20	68	A			A	A	A	A	A
		40	104					A	A		
		60	140					A	A		
		80	176					A	A		
		100	212					A			
		120	248					A			
Nitromethane CH ₃ NO ₂	Pure	20	68					A	A		B
		40	104					A	A		
		60	140					A			
		80	176					A			
		100	212								
		120	248								
Nitrotoluene C ₆ H ₄ CH ₃ NO ₂	Pure	20	68	X	X		A	A	A	C	X
		40	104				A	A	A		X
		60	140					A	A		
		80	176						A		
		100	212						A		
		120	248								
Nitrous Acid HNO ₂	10	20	68				C	A	A	A	B
		40	104				X	A	A		
		60	140					A	A		
		80	176					A	A		
		100	212								
		120	248								
Nitrous Oxide N ₂ O		20	68	A			A	A	A	A	A
		40	104	A			A	A	A	A	A
		60	140	A			A	A	A	A	A
		80	176				A	A	A	A	B
		100	212					A	A	B	
		120	248					B	A	B	
Octane C ₈ H ₁₈		20	68					A	A	A	X
		40	104					A	A		
		60	140					A	A		
		80	176					A	A		
		100	212					A	A		
		120	248					A	A		
Octene CH ₃ (CH ₂) ₅ CH=CH ₃	Pure	20	68					A	A	A	X
		40	104					A	A		
		60	140					A	A		
		80	176					A	A		
		100	212					A	A		
		120	248					A	A		

*When DV Series Diaphragm Valves are used on **nitric acid**, the PVDF Gas Barrier is always recommended if a PTFE diaphragm.

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Oil - Heavy		20	68	B	B	X	A	A	B	X	B
		40	104				A	A	B		B
		60	140				A	A			
		80	176					A			
		100	212					A			
		120	248					A			
Oil - Light (Incl. Diesel Fuels)		20	68	A		A	A	A	A	X	A
		40	104				A	A	A		
		60	140				A	A	A		
		80	176				A	A			
		100	212				A	A			
		120	248					A			
Oil - Lubricating (ASTM 1)		20	68	A		B	A	A	A	X	A
		40	104	A		C	A	A	A		B
		60	140	A		X	A	A	A		
		80	176				A	A	A		
		100	212				A	A	A		
		120	248				A	A			
Oil - Lubricating (ASTM 2 and 3)		20	68	A		B	A	A	A	X	A
		40	104	A		C	A	A	A		B
		60	140	A		X	A	A	A		
		80	176				A	A	A		
		100	212				A	A	B		
		120	248				A	A			
Oil - Sulfonated		20	68	A		A	A	A	A	A	A
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Oil - Machine, Mineral, Motor		20	68	A		A	A	A	A	X	A
		40	104	A		B	A	A	A		A
		60	140	A		C	A	A	A		B
		80	176				A	A			
		100	212				A	A			
		120	248								
Oil - Petroleum (Crude Oil)		20	68	B		B	A	A	A	X	A
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Oleic Acid $\text{CH}(\text{CH}_2)_7\text{CH}_3$ $\text{CH}(\text{CH}_2)_7\text{COOH}$		20	68	A	B	A	A	A	A	X	X
		40	104	A	B	A	A	A	A		
		60	140	A	B	A	A	A	A		
		80	176			A	A	A	A		
		100	212				A	A	A		
		120	248				B	A	B		
Oleum (fuming sulphuric acid) $\text{H}_2\text{SO}_4 + \text{SO}_3$		20	68	X	X	X	X	A	X	X	X
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Olive Oil		20	68	A	A	A	A	A	A	B	A
		40	104	A	A	A	A	A	A		A
		60	140	A	A	A	A	A	A		A
		80	176		A	A	A	A	A		A
		100	212				A	A			
		120	248				A	A			
Organic Phosphorus Series Insecticide (Sumition®)		20	68	X	X	A	A	A	A	A	C
		40	104			A	A	A	A	A	
		60	140			B	A	A	A	A	
		80	176				A	A			
		100	212				B	A			
		120	248				B	A			
Oxalic Acid HOOCCOOH	20	20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A		A
		60	140	A	A	A	A	A	A		
		80	176		A	A	A	B	A		
		100	212					C	A		
		120	248					A			
Oxalic Acid HOOCCOOH	50	20	68	A	A	A	A	A	A	B	A
		40	104	A	A	A	A	A	A		A
		60	140	A	A	A	B	A			
		80	176		A	A	C	A			
		100	212					A			
		120	248					A			
Oxygen Gas O_2		20	68	A	A	A	A	A	A	A	B
		40	104	A					A	A	A
		60	140	A					A	A	A
		80	176				A	A	A	A	
		100	212					A			
		120	248					A			
Ozone Gas O_3	7000 ppm	20	68	X	X	X	B	A			B
		40	104					A			
		60	140					A			
		80	176					A			
		100	212					A			
		120	248					A			
Ozone Solution (Aqueous) O_3	10 ppm	20	68	A	A	B	A	A	A	A	
		40	104	A	B	B	A	A	A	A	
		60	140	B	B		A	A	B	B	
		80	176				A	A			
		100	212								
		120	248								
Ozone Solution (Aqueous) O_3	0.5 mg/l	20	68	A	B	X	A	A	A	A	
		40	104	A	B		A	A	A	A	
		60	140	B			A	A	B	B	
		80	176				A	A			
		100	212								
		120	248								
Palmitic Acid $\text{C}_{15}\text{H}_{31}\text{COOH}$	Pure	20	68	A		A	A	A	A	B	A
		40	104			A	A	A			
		60	140			A	A	A			
		80	176			B	A	A			
		100	212				A	A			
		120	248				A	A			
Paraffin Oil		20	68	A	A	A	A	A	A	X	A
		40	104	A	A	A	A	A	A		A
		60	140				A	A	A		
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Perchloroethylene $\text{Cl}_2\text{C}=\text{CCl}_2$	Pure	20	68	X	X	B	A	A	A	X	X
		40	104			C	A	A	A		
		60	140			X	A	A	B		
		80	176				A	A			
		100	212				A	A			
		120	248								
Perchloric Acid HClO_4	10	20	68	A		A	A	A	A	A	X
		40	104	A		A	A	A	A	A	
		60	140	B		B	A	A	A	A	
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Perchloric Acid HClO_4	70	20	68	B		C	A	A	A	A	
		40	104				A	A	A	A	
		60	140				A	A	A	A	
		80	176				A	A			
		100	212				A				
		120	248								

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Phenol C ₆ H ₅ OH	Pure	20	68	A		A	A	A	A	A	X
		40	104	B		A	A	A			
		60	140			B	B	A			
		80	176			X	B	A			
		100	212					A			
		120	248					A			
Phenylhydrazine C ₆ H ₅ NNH ₂		20	68	X		C	A	A	X	B	X
		40	104				A	A			
		60	140				A	A			
		80	176				B	A			
		100	212				C	A			
		120	248				X	A			
Phenylhydrazine Hydrochloride C ₆ H ₅ N ₂ -HCl		20	68	X	X	A	A	A	A	A	X
		40	104				A	A	A	A	
		60	140				A	A			
		80	176					A			
		100	212								
		120	248								
Phosgene Gas COCl ₂		20	68	X	X	X			X		X
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Phosphoric Acid H ₃ PO ₄	10	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	B
		80	176		B	A	A	A	A	A	C
		100	212				A	A	A		
		120	248				A	A			
Phosphoric Acid H ₃ PO ₄	50	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	B
		60	140	A	B	A	A	A	A	A	C
		80	176		C	C	A	A	A	A	X
		100	212				A	A	A		
		120	248				A	A			
Phosphoric Acid H ₃ PO ₄	85	20	68	A	A	A	A	A	A	A	A
		40	104	A	B	A	A	A	A	A	B
		60	140	B	B	A	A	A	A	A	X
		80	176		C	B	A	A	A	A	
		100	212				A	A	A		
		120	248				A	A			
Phosphorus Oxychloride (Phosphoryl chloride) POCl ₃		20	68	X	X	X	X	B	X	X	X
		40	104					C			
		60	140								
		80	176								
		100	212								
		120	248								
Phosphorus Pentoxide P ₂ O ₅	Pure	20	68	A	A	A	A	A	A	A	
		40	104				A	A	A	A	
		60	140				A	A	A	A	
		80	176				A	A			
		100	212				A	A			
		120	248				A				
Phosphorus Red P ₄		20	68	A	A	A	A	A			
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Phosphorus Trichloride PCl ₃	Pure	20	68	X	X	X	A	A	B	X	X
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A				
Phosphorus Yellow P ₄		20	68								
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Photographic Solutions (Sodium Thiosulfate) Na ₂ S ₂ O ₃		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			A	A	A			
		100	212				A	A			
		120	248				A	A			
Phthalic Acid C ₆ H ₄ (COOH) ₂		20	68	A			A	A	A	A	A
		40	104								
		60	140								
		80	176						A	A	
		100	212						B	A	
		120	248						A		
Picric Acid C ₆ H ₂ (OH)(NO ₂) ₃	10	20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	A	B
		60	140	A	A	A	A	A	A	A	C
		80	176		B	A	A	A	B	B	X
		100	212				A	A	C		
		120	248						A		
Polyethylene Glycol H(OCH ₂ CH ₂) _n OH		20	68	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	
		80	176		B	B	A	A	A	A	
		100	212				A	A	A		
		120	248				A	A			
Poly Aluminium Chloride [Al ₂ (OH) _n Cl _{6-n}] _m		20	68	A	A	A	A	A	A	A	A
		40	104		A	A	A	A	A	A	
		60	140		A	A	A	A	A	A	
		80	176						A		
		100	212								
		120	248								
Polyvinyl Acetate [CH ₃ COOCH ₂ =CH ₂] _n		20	68				A	A	A	A	A
		40	104					A	A		
		60	140					A	A		
		80	176					A	A		
		100	212					A	A		
		120	248					A	A		
Polyvinyl Alcohol [-CH ₂ -CH(OH)-] _n		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			A	A	A			
		100	212				A	A			
		120	248				A	A			
Potash (Potassium Carbonate) K ₂ CO ₃		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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Potassium Acetate CH ₃ COOK	Satu	20	68	A	A	A	A	A	A	A	A
		40	104				A	A			
		60	140				A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Potassium Alum K ₂ SO ₄ Al ₂ (SO ₄) ₃	Satu	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		A	A	A	A	A	B	B
		100	212				A	A	A		
		120	248				A	A			

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Potassium Aluminum Silicate $\text{Al}_2\text{O}_3 \cdot \text{K}_2\text{O} \cdot 6\text{SiO}_2$		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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Potassium Bicarbonate KHCO_3	Satu	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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Potassium Bichromate $\text{K}_2\text{Cr}_2\text{O}_7$	Satu	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	B
		100	212				A	A	A		
		120	248				A	A			
Potassium Bisulfate KHSO_4		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	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Potassium Borate		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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Potassium Bromate KBrO_3		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		
		100	212				A	A			
		120	248				A	A			
Potassium Bromide KBr		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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				B	A			
Potassium Chlorate (Aqueous) KClO_3		20	68	A	A	A	A	A	A	A	C
		40	104	A	A	A	A	A	A	A	
		60	140	B	A	A	A	A	A		
		80	176		B	B	A	A			
		100	212				A	A			
		120	248				A	A			
Potassium Chloride KCl		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		A	A	A	A	A	A	A
		100	212				A	A	A		
		120	248				A	A			
Potassium Chromate K_2CrO_4		20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	B	B	A	A	A	A	A	A
		80	176		B	B	A	A	A	A	B
		100	212				A	A	A		
		120	248				B	A			
Potassium Cyanide KCN		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	B
		100	212				A	A	B		
		120	248				A	A			
Potassium Ferricyanide $\text{K}_3[\text{Fe}(\text{CN})_6]$		20	68	A	A	A	A	A	A	A	A
		40	104	A		A	A	A	A	A	
		60	140	A		A	A	A	A	A	
		80	176			A	A	A	A		
		100	212				A	A			
		120	248				A	A			
Potassium Ferrocyanide $\text{K}_4[\text{Fe}(\text{CN})_6]$		20	68	A	A	A	A	A	A	A	A
		40	104	A		A	A	A	A	A	
		60	140	A		A	A	A	A	A	
		80	176			A	A	A	A		
		100	212				A	A			
		120	248				A	A			
Potassium Fluoride KF		20	68	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
		80	176			A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Potassium Hydroxide (Caustic Potash) KOH	25	20	68	A	B	A	A	A	X	A	B
		40	104	A	B	A	A	A		A	B
		60	140	A	B	A	B	A		A	C
		80	176		B	A	C	A		A	X
		100	212				X	A			
		120	248								
Potassium Hypochlorite KClO		20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	A	
		60	140	A		A	A	A	A	A	
		80	176					A			
		100	212					A			
		120	248					A			
Potassium Iodide KI		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		A	A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Potassium Nitrate KNO_3		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			A	A	A	A	A	B
		100	212				A	A	A		
		120	248				A	A			
Potassium Perborate KBO_3		20	68	A	A	A	A	A			
		40	104	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	A			
Potassium Perchlorate KClO_4		20	68	A	A	A	A	A			
		40	104	A	A	A	A	A			
		60	140	A	A	A	A	A			
		80	176		B	B	A	A			
		100	212				A	A			
		120	248				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	
		60	140	B	A	A	A	A	A	A	
		80	176		A	B	A	A			
		100	212				A	A			
		120	248				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	
		60	140	B	A	A	A	A	A	A	
		80	176		B	B	A	A			
		100	212				A	A			
		120	248				A	A			

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Potassium Persulfate $K_2S_2O_8$		20	68	A	A	A	A	A	A	A	X
		40	104	A		A	A	A	A	A	
		60	140	A		A	A	A	A	A	
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Potassium Phosphate K_3PO_4		20	68	A	A	A	A	A	A	A	
		40	104	A		A	A	A	A	A	C
		60	140	C		A	A	A	A	A	X
		80	176			A	A	A	A	A	
		100	212				A	A	A		
		120	248				A				
Potassium Sulfate K_2SO_4	Pure	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		A	A	A	A	A	B	
		100	212				A	A	A		
		120	248				A	A	B		
Potassium Sulfide K_2S		20	68	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	
		80	176			A	A	A	A	A	
		100	212				A	A	A		
		120	248				A	A			
Potassium Sulfite K_2SO_3		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				A	A			
		100	212				A	A			
		120	248								
Potassium Thiocyanate $KSCN$		20	68	A	A	A	A	A	A	C	A
		40	104	A	A	A	A	A	A		
		60	140	A	A	A	A	A	A		
		80	176				A	A	A		
		100	212				A	A			
		120	248				A	A			
Propane $CH_3CH_2CH_3$		20	68	A	A	A	A	A	A	X	A
		40	104			A	A	A			
		60	140			B	A	A			
		80	176				A	A			
		100	212				A	A			
		120	248				A	A			
Propionic Acid CH_3CH_2COOH	50	20	68	A		A	A	A	X	B	B
		40	104	A		A	A	A			
		60	140			A	A	A			
		80	176					A			
		100	212					A			
		120	248								
Propyl Acetate $CH_3CO_2C_3H_7$	Pure	20	68				A	A	X	B	X
		40	104				B	A			
		60	140				C	A			
		80	176				X	A			
		100	212								
		120	248								
Propyl Alcohol C_3H_7OH	Pure	20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	A	B
		60	140	B	A	A	A	A	A	A	C
		80	176		B	B	B	A	A	A	X
		100	212				C	A	A		
		120	248					A			
Propyl Nitrate $C_3H_7NO_3$		20	68				A	A	X	B	
		40	104					A			
		60	140					A			
		80	176					A			
		100	212								
		120	248								
Propylene Dichloride $CH_3CHClCH_2Cl$	Pure	20	68	X	X	X	A	A	B	X	X
		40	104				A	A			
		60	140				B	A			
		80	176				B	A			
		100	212								
		120	248								
Propylene Oxide CH_3CHCH_2 		20	68	X	X		C	A	X	X	X
		40	104				X	A			
		60	140					A			
		80	176								
		100	212								
		120	248								
Pyridine C_5H_5N		20	68	X	X		A	C	A	X	B
		40	104				A	C	A		C
		60	140			B	X	A		X	
		80	176					A			
		100	212								
		120	248								
Radium Chloride $RaCl_2$		20	68	A			A	A	A	A	X
		40	104				A	A	A	A	
		60	140				A	A	A	A	
		80	176					A	A		
		100	212					A	A		
		120	248								
Rhodium Chloride $RhCl_3$		20	68	A			A	A	A	A	A
		40	104				A	A	A	A	
		60	140					A	A	A	
		80	176					A	A		
		100	212						A		
		120	248								
Salicylaldehyde C_6H_4OHCHO		20	68					A	A	A	A
		40	104					A	A	A	
		60	140					B	A		
		80	176					C	A		
		100	212					X	A		
		120	248								
Salicylic Acid $C_6H_4OHCO_2H$		20	68	A				A	A	A	A
		40	104	A				A	A	A	A
		60	140	A				A	A	A	A
		80	176					A	A	A	
		100	212					B	A		
		120	248						A		
Silicic Acid $SiO_3 \cdot nH_2O$		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		A	A	A	A	A	A	A
		100	212					A	A	A	
		120	248					A	A		
Silicone Oil		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	
		80	176				A	A	A	A	
		100	212					A	A		
		120	248					A	A		
Silver Acetate CH_3COOAg		20	68	A			A	A	A	A	A
		40	104					A	A	A	
		60	140					A	A	A	
		80	176					A	A		
		100	212					A	A		
		120	248					A	A		
Silver Chloride $AgCl$		20	68	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	
		80	176				A	A	A	A	
		100	212					A	A	A	
		120	248					A	A		

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Silver Cyanide AgCN		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		A	A	A	A	A	A	A
		100	212				A	A			
Silver Nitrate AgNO ₃		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			A	A	A	A	A	B
		100	212				A	A			
Silver Sulfate Ag ₂ SO ₄		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		A	A	A	A	A	A	B
		100	212				A	A	A		
Sodium Acetate CH ₃ COONa	Satu	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A		A	
		60	140	A	A	A	A	A		A	
		80	176		A	A	A	A		A	
		100	212				A	A			
Sodium Alum NaAl(SO ₄) ₂ ·12H ₂ O	Satu	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		A	A	A	A	A	A	B
		100	212				A	A	A		
Sodium Benzoate C ₆ H ₅ COONa		20	68	A	A	A	A	A			
		40	104	A	A	A	A	A			
		60	140	A	A	A	A	A			
		80	176			A	A	A			
		100	212				A	A			
Sodium Bicarbonate NaHCO ₃		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			A	A	A	A	A	
		100	212				A	A	A		
Sodium Bichromate Na ₂ Cr ₂ O ₇	Satu	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	A	A	B	A	A	A	A	A
		80	176		B	B	A	A	A	A	B
		100	212				A	A	A		
Sodium Bisulfate NaHSO ₄		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	A
		100	212				A	A	A		
Sodium Bisulfite NaHSO ₃		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	A
		100	212				A	A	A		
Sodium Bromate NaBrO ₃		20	68	A		A	A	A	A	A	X
		40	104				A	A	A	A	
		60	140				A	A	A	A	
		80	176				A	A			
		100	212				A	A			
Sodium Bromide NaBr	Satu	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		A	A	A	A	A	A	
		100	212				A	A			
Sodium Carbonate Na ₂ CO ₃		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		A	A	A	A	A	A	
		100	212				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	
		60	140	A	B	B	A	A	A	A	
		80	176		B	B	A	A	B	A	
		100	212				A	A	B		
Sodium Chloride (Brine) NaCl		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		A	A	A	A	A	A	A
		100	212				A	A	A		
Sodium Chlorite NaClO ₂	25	20	68	X	X		A	A	B	B	X
		40	104				B	B			
		60	140								
		80	176								
		100	212								
Sodium Cyanide (Aqueous) NaCN		20	68	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	
		80	176		B	B	A	A	A	A	
		100	212				A	A	B		
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	
		60	140			A	A	A	A	A	
		80	176						A		
		100	212						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	A
		60	140	A	A	A	A	A	A	A	A
		80	176		B	B	A	A			
		100	212				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	A
		60	140	A	A	A	A	A	A	A	A
		80	176		B	B	A	A			
		100	212				A	A			
Sodium Fluoride NaF		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			A	A	A			
		100	212			A	A	A			
Sodium Hydroxide (Caustic Soda) NaOH	10	20	68	A	C	A	B	A	C	A	A
		40	104	A	X	A	B	A	C	A	A
		60	140	A	X	A	B	A	X	A	A
		80	176		X	B	C	A		A	A
		100	212				C	A			

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Sodium Hydroxide (Caustic Soda) NaOH	15	20	68	A	B	A	A	A	C	A	A
		40	104	A	C	A	A	A	C	A	A
		60	140	A	C	A	B	A	X	A	A
		80	176		X	B	C	A		A	A
		100	212				X	A			
Sodium Hydroxide (Caustic Soda) NaOH	30	20	68	A	B	A	A	A	C	A	A
		40	104	A	B	A	A	A	X	A	A
		60	140	A	C	A	B	A		A	A
		80	176		X	A	C	A		A	A
		100	212				X	A			
Sodium Hydroxide (Caustic Soda) NaOH	50	20	68	A	B	A	A	A	X	A	
		40	104	A	B	A	B	A		A	
		60	140	A	C	A	C	A		A	
		80	176		X	A	X	A		A	
		100	212					A			
Sodium Hypochlorite (Bleach) NaOCl	3	20	68	A	A	B	A*	A	A	B	
		40	104	A	A	B	A*	A	A	B	
		60	140	B	B	B	A*	A	B	C	
		80	176						C		
		100	212								
Sodium Hypochlorite (Bleach) NaOCl	5	20	68	A	A	B	A*	A	A	B	
		40	104	A	A	B	A*	A	A	B	
		60	140	B	B	C	B*	A	B	C	
		80	176						C		
		100	212								
Sodium Hypochlorite (Bleach) NaOCl	7	20	68	A	A	B	A*	A	A	B	
		40	104	A	A	C	A*	A	A	C	
		60	140	B	B	C	B*	A	B	C	
		80	176						C		
		100	212								
Sodium Hypochlorite (Bleach) NaOCl	10	20	68	A	A	B	A*	A	A	X	
		40	104	A	A	C	A*	A	A		
		60	140	B	B	C	B*	A	B		
		80	176						C		
		100	212								
Sodium Hypochlorite (Bleach) NaOCl	13	20	68	A	A	B	A*	A	A	X	
		40	104	A	A	C	A*	A	A		
		60	140	B	B		B*	A	B		
		80	176						C		
		100	212								
Sodium Iodide NaI		20	68	A		A	A	A	A	A	
		40	104	A		A	A	A	A	A	
		60	140				B	A	A	A	
		80	176					A			
		100	212								
Sodium Metasilicate Na ₂ SiO ₃		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		A	A	A	A	A	A	A
		100	212				A	A	A		
Sodium Nitrate NaNO ₃	Satu	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		A		A	A	A	A	B
		100	212				A	A	A		
Sodium Nitrite NaNO ₂	Satu	20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	B	B	A	A	A	A	A	A
		80	176		B	A	A	A	A	A	B
		100	212				A	A	A		
Sodium Palmitate Na(C ₁₅ H ₃₁ COO)	5	20	68				A	A	A		
		40	104					A	A		
		60	140					A	A		
		80	176					A	A		
		100	212					A	A		
Sodium Perborate NaBO ₃ ·4H ₂ O		20	68				A	A	A	A	A
		40	104					A	A	A	A
		60	140					A	A	A	A
		80	176					A	A	A	A
		100	212					A	A		
Sodium Perchlorate NaClO ₄		20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	B	B	A	A	A	A	A	
		80	176		B	B	A	A	A	A	
		100	212					A	A		
Sodium Peroxide Na ₂ O ₂		20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	A	
		60	140	B	B	A	A	A	A	A	
		80	176		B	A	A	A	A	A	
		100	212					A	A		
Sodium Persulfate Na ₂ S ₂ O ₈	Satu	20	68	A	A	A	A	A	A	A	X
		40	104	A		A	A	A	A	A	
		60	140	B		A	A	A	A	A	
		80	176					A	A	A	
		100	212					A	A	A	
Sodium Phosphate (Acidic) Na ₃ PO ₄		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			A	A	A	A
		100	212					A	A	A	
Sodium Phosphate (Alkaline) Na ₃ PO ₄		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	A	A	A	A	A	A
		100	212					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	A
		60	140	B	A	A	A	A	A	A	A
		80	176				A	A	A		
		100	212					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	A
		60	140	A	A	A	A	A	A	A	A
		80	176		A		A	A	A	A	B
		100	212				A	A	A		

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

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Sodium Sulfide Na ₂ S		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		A	A	A	A	A	A	B
		100	212				A	A	B		
		120	248				A	A			
Sodium Sulfite Na ₂ SO ₃		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		A	A	A	A	B	B	
		100	212				A	A			
		120	248				A	A			
Sodium Thiocyanate NaSCN		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				A	A	A		
		100	212				A	A			
		120	248				B	A			
Soybean Oil		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		
		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
		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			
Stannous Chloride (Tin (II) Chloride) SnCl ₂		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		
		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
		40	104	A	A	B	A	A	A		A
		60	140	A	A	B	A	A	B		B
		80	176		B		A	A	C		
		100	212				A	A			
		120	248				A	A			
Styrene C ₆ H ₅ CH=CH ₂		20	68				A	A	A	X	C
		40	104				A				
		60	140				A				
		80	176				A				
		100	212				A				
		120	248				A				
Succinic Acid (Amber Acid) CH ₂ =COOH CH ₂ =COOH		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		
		100	212				A	A			
		120	248				B	A			
Sugar Liquors (Beet, Cane)		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		A	A	A	A	A		
		100	212				A	A			
		120	248				A	A			
Sulfamic Acid HOSO ₂ NH ₂	20	20	68	A	A	A	A	A			
		40	104	A	A	A	A	A			
		60	140			A	A	A			
		80	176				A	A			
		100	212				A				
		120	248				A				
Sulfur S S	Pure	20	68	A	A		A	A	A	C	X
		40	104	A	A		A	A			
		60	140	B	B			A			
		80	176		B			A			
		100	212					A			
		120	248					A			
Sulfur Chloride S ₂ Cl ₂		20	68			C	A	A	A	X	X
		40	104			X	A	A			
		60	140					A			
		80	176					A			
		100	212					A			
		120	248					A			
Sulfur Dichloride SCl ₂		20	68			C	A	A	A	X	X
		40	104			X	A	A			
		60	140					A			
		80	176								
		100	212								
		120	248								
Sulfur Dioxide Gas SO ₂	Dry	20	68	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A		A	
		80	176		A	A	A	A		B	
		100	212				A	A			
		120	248				A	A			
Sulfur Dioxide Gas SO ₂	Wet	20	68	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	
		60	140	B	A	A	A	A	A	A	
		80	176		B	B	A	A		A	
		100	212				A	A			
		120	248				A	A			
Sulfur Trioxide SO ₃		20	68	X	X	X	X	B	X	X	
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Sulfuric Acid H ₂ SO ₄	10	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		A	A	A	A	A	A	B
		100	212				A	A	A		C
		120	248				A	A	A		X
Sulfuric Acid H ₂ SO ₄	30	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		A	A	A	A	A	B	B
		100	212				A	A	A		C
		120	248				A	A	A		X
Sulfuric Acid H ₂ SO ₄	50	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		A	A	A	A	A	B	B
		100	212				A	A	A		C
		120	248				A	A	B		X
Sulfuric Acid H ₂ SO ₄	60	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	A	A	A	A	C	B
		100	212				A	A	B		C
		120	248				C	A	C		X
Sulfuric Acid H ₂ SO ₄	70	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	B	A
		80	176		B	B	A	A	A	X	B
		100	212				A	A	B		C
		120	248				C	B	C		X

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	PTFE/PFA	VITON®	EPDM	FKM-F	Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F											°C	°F								
Sulfuric Acid H ₂ SO ₄	80	20	68	A	A	A	A	A	A	A	A	Tannic Acid (Tannin) C ₇₆ H ₅₂ O ₄₆		20	68	A	A	A	A	A	A	B	A
		40	104	A	A	A	A	A	A	A	A			40	104	A	A	A	A	A			
		60	140	B	B	B	A	A	A	B	A			60	140	A	A	A	A	A			
		80	176		C	B	A	A	B	X	B			80	176			A	A	A			
		100	212				B	A	C		C			100	212				A	A			
		120	248				X	B			X			120	248				A	A			
Sulfuric Acid H ₂ SO ₄	90	20	68	A	A	A	A	A	A	B	A	Tartaric Acid (Dioxysuccinic Acid) CH(OH) COOH CH(OH) COOH		20	68	A		A	A	A	A	A	A
		40	104	B	A	A	A	A	A	B	A			40	104	A		A	A	A	A	A	A
		60	140	B	B	B	A	A	A	C	A			60	140	A		A	A	A	A	A	B
		80	176		C	B	A	A	B	X	B			80	176			B	A	A	A		B
		100	212				B	A	C		C			100	212				A	A			
		120	248				X	B	X		X			120	248				A	A			
Sulfuric Acid H ₂ SO ₄	93	20	68	A	A	A	A	A	A	B	A	Tertiary Butyl Alcohol (CH ₃) ₃ C(OH)		20	68	A	A	A	A	A	A	B	X
		40	104	B	B	A	A	A	A	B	A			40	104				A	A			
		60	140	B	B	B	A	A	B	C	A			60	140				A	A			
		80	176		C	B	A	A	B	X	B			80	176				A	A			
		100	212			C	B	A	X		C			100	212					A			
		120	248				X	B			X			120	248					A			
Sulfuric Acid H ₂ SO ₄	94	20	68	A	A	B	A	A	A	C	A	Tetrachloro-ethane Cl ₂ CHCHCl ₂	Pure	20	68	X		B	A	A	A	X	X
		40	104	B	B	B	A	A	B	X	A			40	104				A	A			
		60	140	B	C	B	A	A	C		B			60	140				A	A			
		80	176			C	B	A	C		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	A	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		B			40	104				A	A	A		
		60	140	C	C		A	A	C		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	A	Tetrahydro-furan CH ₂ - CH ₂ CH ₂ - CH ₂ O	Pure	20	68	X	X	B	C	A	B	X	X
		40	104	C	C		A	A	C		B			40	104			C	X	A			
		60	140	C	X		A	A	X		C			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	B	Tetralin (Tetrahydro-naphthalene) C ₁₀ H ₁₂	Pure	20	68	X		X	A	A	A	X	X
		40	104	C	C		A	A			C			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		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	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	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		A			40	104	A	A	A	A	A	A	A	A
		60	140	B			A	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			

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	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Titanium Tetrachloride TiCl ₄		20	68	X		A		A	A	C	B
		40	104					A	A		
		60	140					A	A		
		80	176								
		100	212								
		120	248								
Toluene (Toluol) C ₆ H ₅ CH ₃		20	68	X	X	A	A	A	A	X	X
		40	104			C	A	A			
		60	140			X	B	A			
		80	176				B	A			
		100	212				C	B			
		120	248				C				
Triacetin C ₃ H ₅ O ₃ (COCH ₃) ₃	Pure	20	68					A	B	A	B
		40	104					A			
		60	140					A			
		80	176					A			
		100	212					A			
		120	248								
Tributyl Phosphate (C ₄ H ₉ O) ₃ PO		20	68	X		A	A	A	X	B	X
		40	104			B	A	A			
		60	140			C	C	A			
		80	176				X	A			
		100	212								
		120	248								
Trichloro-acetic Acid Cl ₃ C-COOH		20	68	C		A	A	A	X	X	X
		40	104			A	B	A			
		60	140			B	C	A			
		80	176				X				
		100	212								
		120	248								
Trichloro-ethylene ClHC=CCl ₂		20	68	X	X	B	A	A	A	X	X
		40	104			C	A	A	A		
		60	140			X	A	A	A		
		80	176				A	A	A		
		100	212				A	A			
		120	248				A				
Tricresyl Phosphate (CH ₃ C ₆ H ₄ O) ₃ PO	Pure	20	68	X	X	C	A	A	A	A	X
		40	104					A			
		60	140					A			
		80	176								
		100	212								
		120	248								
Triethanolamine (HOCH ₂ CH ₂) ₃ N		20	68			A	A	A	B	A	A
		40	104					A			
		60	140					A			
		80	176					A			
		100	212								
		120	248								
Triethylamine (C ₂ H ₅) ₃ N		20	68				B	A	A		X
		40	104				B	A			
		60	140				X	A			
		80	176					A			
		100	212								
		120	248								
Trimethyl-propane C ₆ H ₁₄		20	68	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
		80	176		A	A	A	A	A		A
		100	212				A	A			
		120	248				A				
Turpentine		20	68	A	A	B	A	A	A	B	B
		40	104	A		C	A	A	A		
		60	140	A		X	A	A	A		
		80	176				A	A	A		
		100	212				A	A			
		120	248				A	A			
Uranium Oxide UO ₂		20	68								
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Urea CO(NH ₂) ₂ (Urine)	50	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		A	A	A	A			
		100	212				A	A			
		120	248				A	A			
Varsol		20	68								
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Vaseline (Petrolatum)		20	68								
		40	104								
		60	140								
		80	176								
		100	212								
		120	248								
Vinegar		20	68	A			A	A	A		
		40	104	A			A	A	A		
		60	140	A			A	A	A		
		80	176				C	A	A		
		100	212					A	A		
		120	248					A	A		
Vinyl Acetate CH ₃ COOCH=CH ₂		20	68	A	A	A	A	A	A	A	C
		40	104	A	A	A	A	A	A	A	
		60	140	A	A	A	A	A	A	A	
		80	176					A	A		
		100	212					A	A		
		120	248					A	A		
Water - Deionized, Distilled or Potable		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		A	A	A	A	A	A	A
		100	212					A	A		
		120	248					A	A		
Water - Sea		20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	B
		60	140	A	A	A	A	A	A	A	B
		80	176		A	A	A	A	A	A	
		100	212					A	A		
		120	248					A	A		
Water - Waste (Domestic Sewage)		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		A	A	A	A	A		
		100	212					A	A		
		120	248					A	A		
Wine (Red and White)		20	68	A	A	A	A	A	A	A	A
		40	104	A	A	A	A	A	A	A	A
		60	140	B	B	A	A	A		A	
		80	176					A	A		
		100	212					A	A		
		120	248					A	A		
Xylene C ₆ H ₄ (CH ₃) ₂		20	68	X	X	X		A	A	B	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	PTFE/PFA	VITON®	EPDM	NITRILE												
		°C	°F																				
Zinc Acetate (CH ₃ COO) ₂ Zn·2H ₂ O		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		A	A	A	A	A	A	B												
		100	212				A	A	A														
120	248				A	A																	
Zinc Bromide ZnBr ₂	Satu	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				A	A															
		100	212																				
120	248																						
Zinc Chloride ZnCl ₂		20	68	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													
		80	176		A	A	A	A	A	A													
		100	212				A	A	A														
120	248				A	A																	
Zinc Cyanide Zn(CN) ₂		20	68	A		A	A	A	A	A	A												
		40	104				A	A															
		60	140				A	A															
		80	176																				
		100	212																				
120	248																						
Zinc Nitrate Zn(NO ₃) ₂ ·6H ₂ O		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		A	A	A	A	A	A	B												
		100	212				A	A	A														
120	248				A	A																	
Zinc Sulfate ZnSO ₄		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		A	A	A	A	A	A	B												
		100	212				A	A	A														
120	248				A	A																	
Mixed Chemicals												Hydrochloric Acid	36 %	20	68	B	B	B	A	A	B	B	
														40	104	B	B	B	A	A	B	B	
												60		140	B	B	B	A	A	B	C		
												80		176				A	A	B			
Ortho-chloro-phenal	170 PPM	100	212				B	A	C														
		120	248				B	A															
Hydrochloric Acid	36	20	68	B	B	X	A	A	X	X	X												
		40	104	X	X		A	A															
60		140				A	A																
80		176				B	A																
100		212				C	A																
Sulfuric Acid	98	120	248				X	A															
Hydrochloric Acid	20 100g	20	68	A	A	A	A	A	A	A	A												
		40	104	A	B	A	A	A	A	A	A												
60		140	B	B	A	A	A	A	A	A													
80		176		B	B	A	A	A	A	B													
100		212				A	A																
Sulfuric Acid	5 5g	120	248				A	A															
Hydrochloric Acid	36 144g	20	68	A	A	A	A	A	A	X	X	X											
		40	104	A	A	A	A	A	A														
60		140	B	B	B	A	A																
80		176		B		A	A																
100		212				A	A																
Sulfuric Acid	98 13g	120	248				B	A															
Chromic Acid	250	20	68	A	A	X	A	A	X	X													
		40	104	A	A		A	A															
60		140	B	B		A	A																
80		176		C		A	A																
100		212				A	A																
Ammonium Fluoride	8 g/l	120	248				A	A															

Chemical	Concentration (%)	Temp.		PVC	CPVC	PP	PVDF	PTFE/PFA	VITON®	EPDM	NITRILE
		°C	°F								
Chromic Acid	220	20	68	A	A	X	A	A	X	X	
		40	104	B	B		A	A			
Chromium Sulfate	1	60	140	B	B		A	A			
		80	176		B		A	A			
Sodium Silicofluoride	12 g/l	100	212				A	A			
		120	248				A	A			
Chromic Acid	350	20	68	A	A	X	A	A	X	X	
		40	104	B	B		A	A			
Sodium Silicofluoride	17	60	140	C	C		A	A			
		80	176				A	A			
Oxalix Acid	1 g/l	100	212				A	B			
		120	248				A	B			
Nitric Acid	15	20	68	A	A	A	A	A			
		40	104	A	A	A	A	A			
	(1:1)	60	140	B	B	B	A	A			
Hydrofluoric Acid	3	80	176	X	X		A	A			
		100	212				A	A			
		120	248				A	A			
Nitric Acid	15	20	68	A	A	A	A	A	A	B	
		40	104	A	A	A	A	A	A		
	(1:1)	60	140	B	C	X	A	A	B		
		80	176	X	X		A	A	B		
Hydrofluoric Acid	5	100	212				A	A	C		
		120	248				B	A	X		
Nitric Acid	15	20	68	A	B	B	A	A			
	(1:1)	40	104	B	C	B	A	A			
		60	140	B	C		A	A			
Hydrofluoric Acid	15	80	176	X	X		A	A			
	(1:1)	100	212				B	A			
		120	248				B	A			
Nitric Acid	5	20	68	A	A	A	A	A			
		40	104	B	B	B	A	A			
	(1:1)	60	140	B	B	B	A	A			
Hydrofluoric Acid	20	80	176	X	B	C	A	A			
		100	212				B	A			
		120	248				B	A			
Nitric Acid	100	20	68				B	A			
		40	104				C	C			
Hydrofluoric Acid	55	60	140								
		80	176								
Phosphoric Acid	100	100	212								
		120	248								
Nitric Acid	50	20	68	B	B	B	A	A			
	100g	40	104	X	X	X	A	A			
		60	140				A	A			
Sulfuric Acid	50	80	176				A	A			
	100g	100	212				A	A			
		120	248				A	A			
Sulfuric Acid	2	20	68	A	A	X	A	A	A	B	
		40	104	A	A		A	A	B		
	(1:1)	60	140	B	B		A	A	C		
		80	176		B		A	A	X		
Chromic Acid	1	100	212		C		A	A			
		120	248				A	A			
Sulfuric Acid	10	20	68	A	B	X	A	A	A	B	
		40	104	B	B		A	A	B		
	(1:1)	60	140	C	X		A	A	C		
		80	176				A	A			
Chromic Acid	10	100	212				A	A			
		120	248				A	A			
Sulfuric Acid	10	20	68	A	B	X	A	A	B	C	
		40	104	B	B		A	A	C		
	(1:1)	60	140	C	X		A	A	X		
		80	176				A	A			
Chromic Acid	25	100	212				A	A			
		120	248				B	A			
Sulfuric Acid	4	20	68	B	B	X	A	A			
		40	104	B	B		A	A			
		60	140				A	A			
		80	176				A	A			
Chromic Acid	400 g/l	100	212				A	A			
		120	248				B	A			
Sulfuric Acid	15	20	68	A	A	X	A	A	A	B	
		40	104	A	A		A	A	A	B	
		60	140	B	B		A	A	B	C	
Chromic Acid	5	80	176				A	A	C	X	
		100	212				A	A	X		
Phosphoric Acid	80 parts	100	212				A	A			
		120	248				A	A			
Sulfuric Acid	2	20	68	A	A	X	A	A	A	X	
		40	104	A	A		A	A	B		
Chromic Acid	10	60	140	B	B		A	A	C		
		80	176		B		A	A	X		
Water	80 parts	100	212				A	A			
		120	248				A	A			
Sulfuric Acid	0.7	20	68	A	A	X	A	A	A	X	X
		40	104	A	A		A	A			
Chromic Acid	250	60	140	B	B		A	A			
		80	176		B		A	A	X		
Sodium Silicofluoride	1 g/l	100	212				A	A			
		120	248				A	A			
Sulfuric Acid	20	20	68	A	A	X	A	A	A	A	
		40	104	B	B		A	A	B	B	
	(1:1)	60	140	B	B		A	A	C	C	
Hydrofluoric Acid	10	80	176		C		A	A			
		100	212				A	A			
		120	248				B	A			
Sulfuric Acid	25	20	68	A	A	X	A	A			
		40	104	B	B		A	A			
	(1:1)	60	140	B	B		A	A			
Hydrofluoric Acid	15	80	176	X	X		A	A			
		100	212				B	A			
		120	248				B	A			
Sulfuric Acid	75	20	68	A	A	B	A	A			
		40	104	A	A	B	A	A			
Nitric Acid	5	60	140	B	B	C	A	A			
		80	176		B		A	A			
Chlorine Gas	Trace	100	212				A				
		120	248				A				
Sulfuric Acid	75	20	68	A	A	A	A	A	A	A	
		40	104	A	A	B	A	A	B	A	
	(1:1)	60	140	A	A	B	A	A	C	B	
		80	176		B	B	A	A	X	C	
Sulfurous Acid	4	100	212				A	A			
		120	248				A	A			
Sulfuric Acid	150	20	68	A	A	A	A	A	A	A	
		40	104	A	A	A	A	A	A	A	
Spelter	80	60	140	A	A	A	A	A	A	A	
		80	176		B	B	A	A	B	B	
Manganese Sulfate	2 g/l	100	212				A	A			
		120	248				A	A			
Sodium Sulfate	225	20	68	A	A	A	A	A	A	A	B
		40	104	A	A	A	A	A	A	A	
Sulfuric Acid	225	60	140		A	A	A	A	A	A	
		80	176		B	B	B	B	A		
Formaldehyde	50 g/l	100	212				B	B	A		
		120	248								
Sulfuric Acid	98	20	68				A	A			
		40	104				A	A			
	(1:1)	60	140				C	B			
Phosphoric Acid	80	80	176								
		100	212								
		120	248								





CHEMICAL RESISTANCE GUIDE



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55 Guardsman Road, Thornhill, ON, L3T 6L2, Canada | ISO 9001:2015 Certified
1.800.930.2436 (CHEM) | fax.905.889.8553 | request@chemline.com | chemline.com