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CHEMICAL RESISTANCE GUIDE

This chart has been compiled from Sigmamotor Inc.'s study of a variety of sources. As such the information contained within is, at the date of issuance, believed to be accurate. However, since the resistance of metals, plastics and elastomers can be affected by concentration, temperature, presence of other chemicals and other factors the information should be considered a general guide not an unqualified guarantee. Sigmamotor Inc. therefore does not express or imply any warranty. Ultimately it is the users responsibility to determine the suitability of the pump used for various solutions.

Codes

- A = Good
- B = Fair; Use Caution
- C = Should Not Be Used
- = Insufficient Data

Chemical or Solution	PVC (Type 1)	CPVC	PP/ Polypropylene	PTFE/ Teflon	PVDF/ Kynar	304 Stainless Steel	316 Stainless Steel	Alloy 20	Hastalloy C	Hastalloy B	Titanium	Aluminum	Polyethylene	Acrylic	Clear PVC	Hypalon	FEP	Viton	EPDM
Acetaldehyde	C	C	B	A	A	A	A	A	A	-	A	A	B	C	C	C	A	A	B
Acetate Solvents	C	B	C	A	A	A	A	A	A	-	-	A	B	C	C	C	A	C	C
Acetic Acid, Glacial	C	A	B	A	B	A	A	A	A	-	A	A	C	C	C	B	A	C	B
Acetic Acid, 5%	A	-	A	A	A	B	A	A	A	-	-	A	A	A	A	A	A	C	B
Acetic Acid, 10%	A	-	A	A	A	B	A	A	A	-	-	A	A	A	A	A	A	C	B
Acetic Acid, 80%	C	B	C	A	A	B	B	A	A	A	A	-	B	C	C	A	A	C	C
Acetic Anhydride	C	C	C	A	B	B	A	A	A	A	A	A	C	C	C	A	A	C	C
Acetone	C	C	B	A	C	A	A	A	A	A	A	A	B	C	C	B	A	C	A
Acetylene	-	B	A	A	-	A	A	A	A	A	A	A	B	-	A	-	A	A	A
Acrylonitrile	C	A	B	A	B	A	A	A	A	A	A	A	C	A	-	B	A	C	C
Aluminum Chloride	A	A	A	A	A	C	B	A	B	A	B	C	A	A	A	A	A	A	A
Aluminum Hydroxide	A	A	A	A	A	B	A	A	-	B	-	A	A	A	A	B	A	A	A
Aluminum Nitrate	A	A	A	A	A	B	A	A	-	-	-	-	A	A	A	-	A	A	A
Aluminum Sulfate	A	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Amines	C	C	A	A	C	A	A	A	A	A	A	A	-	-	-	C	A	C	B
Alums	A	A	A	A	A	C	B	A	A	B	-	-	A	A	A	A	A	A	A
Ammonia, Anhydrous	A	A	A	A	C	A	A	A	A	A	A	A	A	C	A	C	A	C	A
Ammonium Carbonate	A	A	A	A	A	A	A	A	A	A	A	B	A	C	A	A	A	A	A
Ammonium Chloride	A	A	A	A	A	A	A	A	A	A	C	B	A	C	A	A	A	A	A
Ammonium Fluoride, 10%	A	-	A	A	A	-	A	A	A	A	-	-	A	A	C	-	A	A	A
Ammonium Hydroxide	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	B	A
Ammonium Nitrate	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A
Ammonium Phosphate	A	-	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Sulfate	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A
Amyl Acetate	C	C	C	A	B	A	A	A	A	A	A	A	B	C	C	C	A	C	A
Aniline	C	A	A	A	B	A	A	A	A	A	A	B	A	C	-	C	A	C	A
Aqua Ammonia	A	-	A	A	A	-	A	A	A	A	-	-	A	B	C	A	A	A	A
Arsenic Acid	A	A	A	A	A	B	B	A	B	B	C	C	A	-	A	A	A	A	A
Barium Carbonate	A	A	A	A	A	B	B	B	A	A	A	A	A	A	A	A	A	A	A
Barium Chloride	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A
Barium Hydroxide	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A
Barium Sulfate	A	A	A	A	A	B	A	A	-	A	A	C	A	A	A	A	A	A	A
Barium Sulfide	A	A	A	A	A	A	B	A	-	-	-	-	A	A	A	A	A	A	A
Beer	A	A	A	A	-	A	A	A	A	A	-	-	A	A	A	A	A	A	A
Benzene	C	C	C	C	A	A	A	A	A	A	A	A	A	C	C	C	A	A	C
Benzaldehyde	A	C	A	-	C	A	A	A	A	A	A	A	A	-	-	-	A	C	C
Benzoic Acid	B	A	A	A	A	A	A	B	A	A	A	A	A	A	A	C	A	A	C
Black Sulfate Liquor	A	-	A	A	A	-	A	A	-	-	-	-	A	A	A	B	A	A	B
Borax	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A
Boric Acid	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Bromic Acid	A	-	C	A	A	C	C	C	-	-	-	-	A	-	A	-	A	-	-

Bromine	C	C	C	A	A	C	C	-	A	A	A	C	C	C	A	A	A	C	
Butane	A	B	A	A	A	A	A	A	A	A	-	A	-	-	A	A	A	C	
Butylene	A	A	C	A	A	A	A	A	A	A	-	A	B	-	-	A	A	C	
Butadiene	A	A	-	A	-	A	A	A	A	A	-	A	-	-	-	A	B	C	
Butyl Acetate	C	B	C	A	B	-	A	A	A	A	-	A	A	-	C	C	A	B	
Butyl Alcohol	A	A	A	A	B	A	A	A	A	-	A	A	A	-	-	-	A	B	
Butyl Mercaptan	-	-	-	A	-	B	B	B	A	B	-	-	-	-	-	C	A	B	
Butyric Acid	B	C	A	A	A	B	A	A	A	A	A	A	B	-	-	C	A	B	
Calcium Acetate	A	-	A	A	A	A	A	A	A	A	-	-	-	-	C	-	A	C	
Calcium Bisulfite	A	A	A	A	A	B	A	A	A	-	A	B	A	A	A	A	A	C	
Calcium Carbonate	A	A	A	A	A	A	A	A	B	B	A	B	A	A	A	A	A	A	
Calcium Chlorate	A	A	A	A	A	A	A	B	A	-	A	-	A	A	A	A	A	A	
Calcium Chloride	A	A	A	A	A	C	B	A	A	A	A	B	A	A	A	A	A	A	
Calcium Fluoride	A	-	-	A	-	-	A	A	A	A	-	-	A	-	-	A	A	-	
Calcium Hydroxide	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	
Calcium Hypochlorite	A	A	B	A	A	B	B	B	A	C	A	B	A	A	A	A	A	A	
Calcium Nitrate	A	A	A	A	A	B	A	A	A	A	-	-	A	A	A	A	A	A	
Calcium Sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Cane Sugar Liquors	A	-	A	A	-	-	A	A	A	-	-	-	-	-	A	A	A	A	
Carbolic Acid (Phenol)	A	A	A	A	B	A	A	A	A	A	B	A	B	C	-	-	A	B	
Carbon Bisulfide	C	C	C	A	A	A	A	A	A	A	-	A	C	C	C	B	A	C	
Carbon Dioxide	A	A	A	A	-	A	A	A	A	A	-	B	A	-	A	-	A	-	
Carbon Tetrachloride	B	C	C	A	A	A	A	A	A	B	A	B	C	C	C	B	A	C	
Carbonic Acid	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	
Castor Oil	A	B	A	A	A	A	A	A	A	A	-	A	A	A	A	A	A	B	
Caustic Soda (to 50%)	A	-	A	A	A	A	A	B	A	A	-	-	A	A	A	A	A	A	
Cellosolve	-	-	-	-	-	A	A	A	A	A	-	-	-	-	-	-	A	B	
Chloral Hydrate	A	-	A	A	A	-	-	A	-	-	-	-	-	-	-	-	A	-	
Chloracetic Acid	C	C	C	A	A	C	C	A	A	B	A	B	C	-	-	A	A	C	
Chlorine (Sodium Hypo.)	A	C	B	A	A	C	C	C	A	-	C	C	B	A	A	A	A	B	
Chlorobenzene (Dry)	C	-	C	A	-	B	A	A	A	A	-	A	-	C	-	C	A	C	
Chloroform	C	C	C	A	-	A	A	A	A	A	A	C	-	C	-	C	A	C	
Chlorosulfonic Acid	B	C	C	A	-	-	C	B	A	-	A	C	-	-	-	C	A	C	
Chromic Acid, 10%	A	A	B	A	A	-	B	A	A	-	A	-	-	C	C	A	A	C	
Chromic Acid, 30%	A	A	C	A	-	C	B	A	A	C	A	-	A	C	C	A	A	B	
Chromic Acid, 50%	A	C	B	A	C	C	C	B	A	-	A	B	B	C	C	A	A	C	
Citric Acid	A	A	A	A	A	B	A	A	A	A	A	B	A	A	A	A	A	A	
Cobalt Acetate	-	-	-	-	-	B	A	-	-	A	-	-	-	-	-	A	-	-	
Copper Acetate	A	-	A	A	A	A	A	A	A	A	-	-	-	-	-	A	A	C	
Copper Cyanide	A	A	A	A	A	A	A	-	-	-	A	C	A	A	A	A	A	A	
Copper Nitrate	A	A	A	A	A	A	A	-	A	-	A	C	-	A	-	A	A	A	
Copper Sulfate	A	A	A	A	A	A	A	A	A	C	A	-	-	A	A	A	A	A	
Chemical or Solution	PVC (Type 1)	CPVC	PP/ Polypropylene	PTFE/ Teflon	PVDF/ Kynar	304 Stainless Steel	316 Stainless Steel	Alloy 20	Hastalloy C	Hastalloy B	Titanium	Aluminum	Polyethylene	Acrylic	Clear PVC	Hypalon	FEP	Viton	EPDM
Corn Oil	A	-	A	A	-	-	A	-	-	-	-	-	-	A	A	A	A	B	
Cottonseed Oil	A	A	A	A	A	A	A	A	A	A	-	A	A	A	-	A	A	C	
Creosote	C	-	C	A	C	A	A	A	A	-	-	A	C	C	-	C	A	C	
Cresylic Acid (50%)	A	C	-	A	B	A	A	A	A	A	A	B	C	-	-	C	A	C	
Crude Oil	A	-	-	A	A	-	B	-	-	-	-	-	-	-	-	C	A	C	
Cyclohexane	C	C	C	A	A	A	A	A	A	A	A	A	C	-	-	-	A	C	
Detergent	A	A	A	A	-	-	-	-	-	-	-	A	A	A	A	A	A	A	
Dextrose	A	-	A	A	A	-	A	-	-	-	-	-	A	A	A	A	A	A	
Dibutyl Phthalate	C	-	B	A	A	-	A	A	A	-	-	-	-	C	-	C	A	B	
Dichloroethane	C	C	C	A	A	A	A	A	-	-	-	-	-	-	-	C	A	C	
Diesel Fuel	A	A	-	A	A	-	A	-	-	-	-	A	C	A	-	A	A	C	
Diethylamine	C	C	A	A	C	A	A	A	A	-	-	A	-	-	-	-	A	B	
Diethylene Glycol	A	A	-	A	-	A	A	A	-	-	-	-	A	-	-	A	A	A	
Disodium Phosphate	A	-	A	A	A	-	A	A	A	-	-	-	A	-	-	A	A	A	

Ethanol (1-95%)	A	A	A	A	A	-	B	-	-	-	-	-	A	A	-	A	A	C	-
Ethers	C	C	C	A	-	A	A	A	A	A	-	A	C	C	C	C	A	C	C
Ethyl Acetate	C	C	C	A	C	A	A	A	A	-	-	A	B	C	-	C	A	C	C
Ethyl Alcohol	A	A	A	A	-	A	A	A	-	A	A	A	-	C	-	C	A	A	A
Ethyl Butyrate	-	-	C	-	-	A	A	A	-	-	-	-	C	C	-	C	-	-	-
Ethyl Chloride	C	C	-	A	A	A	A	A	A	A	A	A	-	C	-	C	A	C	C
Ethyl Ether	C	C	B	A	A	-	A	A	A	-	-	-	C	C	-	C	A	C	C
Ethylene Chloride	C	C	B	A	A	A	A	-	-	-	A	B	-	C	-	C	A	A	C
Ethylene Dichloride	C	C	C	A	-	-	A	A	A	-	A	C	C	-	-	C	C	B	C
Ethylene Glycol	A	A	B	A	A	A	A	A	A	A	-	A	A	A	A	A	A	A	A
Ethylene Oxide	C	B	-	A	A	A	A	A	A	-	-	A	C	-	-	C	A	C	C
Fatty Acids	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	C	A	A	C
Ferric Chloride	A	A	A	A	A	C	C	C	B	C	-	-	A	A	A	A	A	A	A
Ferric Nitrate	A	A	A	A	A	A	A	A	B	C	A	C	A	A	A	A	A	A	A
Ferrous Chloride	A	A	A	A	A	C	C	C	A	A	A	C	A	A	A	A	A	A	A
Ferrous Sulfate	A	A	A	A	A	C	B	A	A	B	A	C	A	A	A	A	A	A	A
Floussilicic Acid	A	A	A	A	A	C	B	B	B	C	C	C	A	A	A	A	A	A	A
Formaldehyde	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	B	A	A	B
Formic Acid	B	A	A	A	A	A	A	A	A	A	B	C	A	A	-	A	A	C	A
Fruit Juice	A	A	A	C	-	B	A	A	A	A	-	A	-	A	-	A	C	A	-
Freon	A	A	A	A	-	-	A	A	A	-	A	A	-	-	A	-	A	B	B
Fuel Oil	B	-	B	A	A	A	A	A	A	A	A	A	C	A	-	C	A	A	C
Furfural	C	C	C	A	B	A	A	A	A	A	-	A	C	-	-	-	A	C	B
Gallic Acid, 5%	A	B	A	A	A	A	A	A	-	-	-	A	C	-	A	B	A	A	A
Gasoline	A	B	C	A	A	A	A	A	A	A	C	A	-	A	A	A	A	B	C
Glucose	A	A	A	A	A	A	A	A	A	A	-	A	A	A	-	A	A	A	A
Glycerin	A	A	A	A	A	A	A	A	A	A	A	A	-	A	A	A	A	A	A
Glycolic Acid, 30%	A	A	A	A	C	-	-	-	-	-	-	-	-	-	-	A	A	A	A
Heptane	A	A	C	A	A	A	A	A	A	-	-	A	C	-	-	A	A	A	C
Hydrobromic Acid, 20%	A	A	A	A	A	C	C	C	B	A	A	-	A	A	A	A	A	A	A
Hydrochloric Acid, Conc.	B	A	A	A	B	C	C	C	B	A	C	C	A	A	A	C	A	A	A
Hydrochloric Acid, dil.	A	A	A	A	A	-	-	-	-	-	B	C	A	A	A	B	A	A	A
Hydrocyanic Acid, 10%	A	A	A	A	A	A	A	A	A	A	A	A	A	-	A	A	A	A	A
Chemical or Solution	PVC (Type 1)	CPVC	PP/ Polypropylene	PTFE/ Teflon	PVDF/ Kynar	304 Stainless Steel	316 Stainless Steel	Alloy 20	Hastalloy C	Hastalloy B	Titanium	Aluminum	Polyethylene	Acrylic	Clear PVC	Hypalon	FEP	Viton	EPDM
Hydrofluoric Acid	A	B	A	A	B	C	C	C	B	B	C	C	C	-	C	A	A	A	-
Hydrogen Peroxide, 90%	-	A	-	A	-	-	B	-	-	-	-	-	-	C	A	B	A	-	-
Hydrogen Peroxide, 40%	B	A	C	A	A	C	C	B	A	-	A	A	-	C	A	A	A	A	C
Hydrogen Sulfide	A	A	A	A	A	A	A	A	A	-	-	C	A	A	A	A	A	A	A
Hydrofluosilicic Acid	A	A	-	A	A	C	B	B	B	C	C	C	A	-	-	-	A	A	A
Hypochlorous Acid	A	-	A	A	A	-	-	-	-	-	-	-	A	-	-	C	A	B	B
Iodine Solutions	C	C	A	A	A	C	C	C	B	C	A	C	B	A	C	A	A	B	B
Kerosene	A	-	A	A	A	A	A	A	A	A	A	A	B	A	-	C	A	A	C
Lactic Acid to 60%	A	A	A	A	B	B	A	A	A	A	A	B	A	A	A	A	A	A	C
Lard Oil	A	-	A	A	A	-	-	-	-	-	-	A	B	A	-	C	A	A	A
Lead Acetate	A	A	A	A	A	A	A	A	A	-	A	B	A	-	A	C	A	-	A
Lime Slurries	-	-	A	A	-	-	A	A	A	-	-	-	A	-	-	-	A	A	-
Linseed Oil	A	B	A	A	A	A	A	A	A	-	-	A	C	-	A	B	A	A	B
Magnesium Carbonate	A	A	A	A	A	A	A	A	A	-	-	-	A	A	-	B	A	A	A
Magnesium Chloride	A	A	A	A	A	C	C	A	A	A	A	C	A	A	-	A	A	A	A
Magnesium Hydroxide	A	A	A	A	A	A	A	A	A	A	A	C	A	A	-	A	A	A	A
Magnesium Nitrate	A	A	A	A	A	A	A	A	A	-	A	-	A	A	-	A	A	A	A
Magnesium Sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	A	A	A	A
Maleic Acid	A	A	A	A	-	A	A	A	A	A	A	A	C	-	A	C	A	A	A
Malic Acid	A	-	A	A	A	A	A	A	A	A	-	B	C	-	A	A	A	A	C
Mercuric Chloride	A	A	A	A	A	C	C	A	A	C	A	C	A	-	A	A	A	A	A
Mercuric Cyanide	A	A	A	A	A	A	A	-	-	-	A	C	A	-	A	-	A	A	A

Methyl Acetate	C	-	B	A	-	A	A	-	-	-	-	A	-	-	-	-	A	C	B
Methyl Acetone	C	-	-	-	-	A	A	A	-	-	-	A	-	-	-	-	-	-	-
Methyl Alcohol	A	A	A	A	-	A	A	A	A	A	A	B	A	-	A	A	A	B	A
Methylamine	C	-	C	A	C	A	A	A	-	-	-	A	-	-	-	-	A	-	A
Methyl Bromide	C	C	-	A	A	-	A	A	A	A	-	-	C	-	-	-	A	A	C
Methyl Cellosolve	C	C	-	-	A	A	A	A	-	-	-	A	-	-	-	-	N	C	C
Methyl Chloride (liq.)	C	C	-	A	A	A	A	A	A	A	A	C	C	-	-	C	A	C	B
Methyl Ethyl Ketone	C	C	B	A	C	A	A	A	A	-	A	A	C	C	-	C	A	C	B
Methyl Sulfate	B	-	A	A	A	-	-	-	-	-	-	-	-	C	-	-	A	-	-
Methylene Chloride	C	C	C	A	C	A	A	-	-	-	A	A	C	-	-	-	A	B	C
Milk	A	A	A	A	A	A	A	A	A	A	-	A	A	A	A	A	A	A	A
Mineral Oil	B	A	C	A	A	A	A	A	A	A	-	A	C	A	A	A	A	A	C
Molasses	A	A	A	A	-	A	A	A	A	-	-	A	A	-	-	A	A	A	A
Mono Chloroacetic Acid	A	-	B	A	A	C	C	B	A	A	-	-	-	-	-	C	A	B	C
Monosodium Phosphate	A	-	A	A	-	-	A	A	A	-	-	-	-	-	-	A	A	A	-
Morpholine	A	-	C	A	-	A	A	A	A	A	-	-	-	-	-	C	A	C	-
Naphtha	A	A	A	A	A	A	A	A	A	A	A	A	C	A	-	C	A	A	C
Naphthalene	C	C	B	A	B	A	A	A	A	-	A	A	C	-	-	C	A	A	C
Nickel Chloride	A	A	A	A	A	C	A	A	A	A	A	C	A	A	-	A	A	A	A
Nickel Nitrate	A	A	A	A	A	A	A	A	B	-	-	-	A	-	-	A	A	A	B
Nicotinic Acid	A	-	C	A	C	A	A	A	-	-	-	-	C	-	-	-	A	-	-
Nitric Acid to 10%	A	A	A	A	B	B	A	B	B	C	A	C	A	C	A	A	A	A	C
Nitric Acid to 30%	A	A	A	A	B	-	B	A	B	-	A	C	A	C	A	A	A	A	B
Nitric Acid to 70% 100 ° F	A	C	C	A	C	A	B	B	B	C	A	A	C	C	C	C	A	C	C
Nitrobenzene	C	C	B	A	C	A	A	A	A	-	A	B	C	-	-	C	A	A	B
Chemical or Solution	PVC (Type 1)	CPVC	PP/ Polypropylene	PTFE/ Teflon	PVDF/ Kynar	304 Stainless Steel	316 Stainless Steel	Alloy 20	Hastalloy C	Hastalloy B	Titanium	Aluminum	Polyethylene	Acrylic	Clear PVC	Hypalon	FEP	Viton	EPDM
Oils, Animal	A	-	A	A	-	A	A	A	A	-	-	-	B	A	-	-	A	A	A
Oils, Fuel	A	-	A	A	A	A	A	A	A	-	A	A	-	A	-	A	B	A	C
Oleic Acid	A	A	A	A	A	-	A	A	A	A	-	A	C	-	A	C	A	B	C
Oleum	C	C	C	A	C	B	A	A	A	C	-	A	-	C	-	B	A	C	C
Oxalic Acid	A	A	A	A	C	B	B	A	A	A	B	B	A	A	-	B	A	A	A
Palmitic Acid <200 ° F	C	A	A	A	-	A	A	A	A	-	-	-	B	-	-	B	A	A	B
Perchloroethylene Dry	C	B	-	A	-	A	A	A	A	-	-	A	-	C	-	C	A	C	-
Perchloric Acid, 10%	B	A	A	A	A	C	C	C	-	-	-	-	A	C	A	C	A	A	B
Phenol (Carbonic Acid)	A	A	A	A	B	A	A	A	A	A	B	A	B	C	-	C	A	B	A
Phosphoric Acid to 50%	A	A	A	A	A	B	B	A	A	A	A	C	B	A	A	B	A	A	A
Phosphoric Acid to 80%	A	A	A	A	B	B	B	A	A	A	A	C	B	-	A	B	A	A	A
Phosphorus Trichloride	C	C	C	A	A	-	-	A	A	C	-	-	A	-	-	-	A	C	C
Photographic Solutions	A	A	A	A	-	-	-	-	-	-	A	B	A	A	-	A	A	A	-
Picric Acid	C	C	A	A	A	A	A	A	A	A	-	B	B	A	-	A	A	A	A
Potassium Bicarbonate	A	A	-	A	-	A	A	-	-	-	A	B	A	-	A	-	A	A	-
Potassium Bromate	A	-	A	A	A	-	-	-	-	-	-	-	A	-	-	-	A	A	A
Potassium Bromide	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A
Potassium Carbonate	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A
Potassium Chlorate	A	A	A	A	A	A	A	A	A	-	A	A	A	A	A	A	A	A	A
Potassium Chloride, 10%	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium Chloride, +10%	A	A	A	A	A	C	B	A	A	A	A	A	A	-	A	A	A	A	A
Potassium Chromate	A	A	A	A	A	A	A	A	A	A	-	A	A	-	A	A	A	A	A
Potassium Cyanide	A	A	A	A	A	A	A	A	A	A	A	C	A	-	A	A	A	A	A
Potassium Dichromate	A	A	A	A	A	-	A	A	A	-	A	A	A	A	A	A	A	A	A
Potassium Ferrocyanide	A	A	A	A	A	-	B	A	A	-	-	B	A	A	-	A	A	A	A
Potassium Fluoride	A	-	A	A	-	A	A	A	-	-	-	-	A	-	A	-	A	A	A
Potassium Hydroxide	A	A	A	A	A	B	A	A	A	A	B	C	A	A	A	A	A	C	A

Potassium Iodide	A	A	A	A	A	-	B	A	A	-	-	-	-	-	-	A	A	A	A
Potassium Nitrate	A	A	-	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A
Potassium Permanganate	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A
Potassium Sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	A	A	A	A
Potassium Sulfide	A	A	-	A	-	A	A	A	-	-	-	A	A	-	-	-	A	A	A
Potassium Sulfite	A	-	-	A	-	A	A	A	A	-	-	-	-	-	-	A	A	-	-
Potassium Tetra Borate	A	-	A	A	-	-	-	-	-	-	-	-	A	-	-	-	A	-	-
Propane (liq.)	A	A	A	A	A	A	A	A	-	-	-	A	-	-	-	-	A	A	C
Propyl Alcohol	A	-	A	A	-	A	A	A	A	-	A	A	A	-	-	A	A	A	A
Propylene Glycol	A	B	A	A	-	A	A	A	A	-	-	A	A	-	-	A	A	A	A
Salicylic Acid	A	-	A	A	A	-	B	A	A	-	-	-	-	-	-	-	A	A	A
Sea Water	A	A	A	A	-	C	B	A	C	-	A	B	A	A	A	A	A	A	-
Silver Nitrate	A	A	A	A	A	A	A	A	A	-	A	C	A	A	A	A	A	A	A
Soap Solutions	A	A	A	A	A	A	A	A	A	A	A	B	A	A	-	A	A	A	A
Sodium Aluminate	A	-	-	A	-	A	A	A	A	A	A	B	-	-	A	A	A	A	A
Sodium Bicarbonate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	A	A	A	A
Sodium Bichromate	A	-	A	A	A	-	A	A	A	-	-	-	-	-	A	A	A	A	A
Sodium Bisulfate 100 °F	A	A	A	A	A	B	A	A	A	A	A	C	A	A	-	A	A	A	A
Sodium Bisulfite 100 °F	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	A	A	A	A
Sodium Borate	C	A	A	A	A	A	A	A	A	-	-	B	A	A	-	A	A	A	A
Chemical or Solution	PVC (Type 1)	CPVC	PP/ Polypropylene	PTFE/ Teflon	PVDF/ Kynar	304 Stainless Steel	316 Stainless Steel	Alloy 20	Hastalloy C	Hastalloy B	Titanium	Aluminum	Polyethylene	Acrylic	Clear PVC	Hypalon	FEP	Viton	EPDM
Sodium Bromide	A	A	A	A	A	-	B	A	A	-	-	-	A	-	-	A	A	A	A
Sodium Carbonate	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A
Sodium Chlorate	A	A	A	A	A	A	A	A	A	C	A	A	A	A	-	A	A	A	B
Sodium Chloride	A	A	A	A	A	B	B	A	A	A	A	B	A	A	-	A	A	A	A
Sodium Chlorite, 20%	C	-	B	A	-	C	C	C	A	-	-	-	C	-	-	A	A	-	-
Sodium Chromate	A	-	A	A	-	A	A	A	A	A	-	C	-	-	-	-	A	B	-
Sodium Cyanide	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A
Sodium Dichromate	A	-	A	A	A	-	A	A	A	-	-	-	A	-	-	A	A	A	A
Sodium Ferricyanide	A	-	A	A	A	-	A	A	A	-	-	-	A	-	-	A	A	A	A
Sodium Ferrocyanide	A	A	A	A	A	-	-	A	A	-	-	-	A	-	-	A	A	A	A
Sodium Fluoride	A	A	A	A	A	B	B	A	B	B	A	B	A	A	-	A	A	A	A
Sod. Hexametaphosphate	A	-	A	A	-	-	A	A	A	-	-	-	-	A	-	A	A	A	-
Sodium Hydrosulfite	A	B	A	A	-	-	A	A	A	-	-	A	-	-	-	A	A	A	-
Sodium Hydroxide, 20% 75°	A	A	A	A	A	A	A	A	A	A	A	C	-	A	A	A	A	A	A
Sodium Hydroxide, 20% 210°	-	A	-	A	A	A	A	A	A	A	A	C	-	-	-	-	A	C	A
Sodium Hydroxide, 50% 75° Sodium Hydroxide, 50% 75° Sodium Hydroxide, 50% 75°	A	A	A	A	A	A	A	B	A	A	A	C	-	A	A	A	A	C	A
Sodium Hydroxide, 50% 210°	-	A	-	A	A	B	A	B	-	-	A	C	-	-	-	-	A	C	A
Sodium Hypochlorite (Bleach)	A	B	B	A	A	C	C	C	A	B	A	C	A	A	A	A	A	B	B
Sodium Metaphosphate	A	A	A	A	A	-	A	A	A	-	-	A	-	A	-	A	A	A	A
Sodium Nitrate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	A	A	B	A
Sodium Nitrite	A	-	A	A	A	-	A	A	A	-	-	-	-	-	-	A	A	A	A
Sodium Perborate	A	A	A	A	-	A	A	A	A	A	-	A	-	-	-	-	A	A	A
Sodium Peroxide	A	A	A	A	A	A	A	A	A	A	-	B	-	-	-	A	A	A	A
Sodium Mono Phosphate	A	-	A	A	-	B	A	A	A	A	A	C	-	-	-	A	A	A	A
Sodium Di, Tri Phosphate	A	-	A	A	-	A	A	A	A	A	A	C	-	-	-	A	A	A	A
Sodium Polyphosphate	A	A	A	A	-	A	A	A	A	A	A	C	-	-	-	A	A	A	-
Sodium Silicate	B	A	A	A	A	A	A	A	A	A	A	B	-	A	-	A	A	A	A
Sodium Sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	A	A	A	A
Sodium Sulfide	A	A	A	A	A	B	A	A	A	A	A	C	A	-	-	A	A	A	A
Sodium Sulfite	A	A	A	A	A	A	A	A	A	C	A	B	A	-	-	A	A	A	A
Sodium Thiosulfate	A	A	A	A	A	B	B	A	A	A	A	A	-	-	-	A	A	A	A

Stannic Chloride	A	A	A	A	A	C	C	C	A	-	A	C	A	-	A	B	A	A	A
Stannous Chloride	A	A	A	A	A	-	B	-	-	-	A	C	A	-	-	A	A	A	B
Starch	A	A	A	A	-	A	A	A	A	A	-	A	A	-	-	A	A	A	A
Stearic Acid	A	A	A	A	-	B	A	A	A	A	A	A	A	-	-	B	A	A	C
Sugar Solutions	A	-	A	A	-	A	A	A	A	A	-	A	-	-	-	A	A	A	A
Sulfamic Acid	A	-	A	A	-	-	B	B	A	-	-	-	-	-	-	A	A	-	-
Sulfur, Molten	C	-	C	A	-	A	A	A	A	A	-	-	C	-	-	B	A	A	C
Sulfur Chloride	-	B	C	A	A	C	A	A	A	A	-	C	-	-	-	-	A	A	C
Sulfur Dioxide	A	A	A	A	A	A	A	A	A	A	A	A	B	-	C	A	A	A	A
Sulfuric Acid 40-95%	A	A	C	A	B	C	C	A	A	A	C	C	C	C	B	B	A	A	A
Sulfuric Acid +95%	A	B	C	A	B	C	C	A	A	A	C	C	C	C	C	B	A	A	C
Sulfurous Acid, 10%	-	A	A	A	B	B	B	A	A	-	A	B	A	-	-	A	A	A	A
Tannic Acid	A	A	A	A	A	A	A	A	A	A	A	B	A	-	-	A	A	-	B
Tartaric Acid	A	A	A	A	A	B	A	A	A	A	A	B	A	-	-	A	A	A	A
Tetrachloroethane	C	B	A	A	-	-	B	-	-	-	A	-	-	-	-	C	A	A	C
Tetrahydrofuran	C	C	-	A	C	-	-	-	-	-	-	C	C	-	-	C	A	C	C
Chemical or Solution	PVC (Type 1)	CPVC	PP/Polypropylene	PTFE/Teflon	PVDF/Kynar	304 Stainless Steel	316 Stainless Steel	Alloy 20	Hastalloy C	Hastalloy B	Titanium	Aluminum	Polyethylene	Acrylic	Clear PVC	Hypalon	FEP	Viton	EPDM
Tetraethyl Lead	B	-	A	A	A	-	-	-	-	-	-	-	-	-	-	C	A	A	C
Tetralin	A	-	B	A	A	-	-	-	-	-	-	-	B	C	-	-	A	A	-
Tin Salts	A	-	A	A	A	-	-	-	-	-	-	-	A	A	-	A	A	-	-
Titanium Dioxide	B	-	-	-	-	A	A	A	A	A	-	-	-	-	-	-	A	-	A
Titanium Tetrachloride	C	-	B	A	-	-	A	A	A	-	-	-	-	-	C	A	A	A	-
Toluene	C	C	C	A	A	A	A	A	A	A	A	A	C	C	-	C	A	B	C
Tributyl Phosphate	C	-	C	A	A	-	A	A	A	-	-	-	-	-	C	C	A	C	A
Trichloroethylene	C	C	B	A	A	A	A	A	A	A	A	A	C	C	-	C	A	A	C
Triethanolamine	B	-	A	A	A	-	A	A	A	-	-	-	B	-	-	A	A	A	-
Tricresyl Phosphate	C	-	C	A	-	-	A	A	A	-	A	-	-	-	-	C	A	A	-
Triethylamine	A	A	C	A	A	-	A	A	A	-	-	-	-	-	-	-	A	A	-
Trisodium Phosphate	A	A	A	A	A	-	A	A	A	-	-	-	A	-	A	A	A	A	A
Turpentine	A	A	B	A	A	A	A	A	A	-	-	B	C	C	C	C	A	A	B
Urea Fromaldehyde	A	A	A	A	-	A	A	A	A	A	-	-	A	-	-	-	A	A	A
Varnish	-	-	A	A	A	A	A	A	A	A	-	A	-	-	-	-	A	A	C
Vinegar	A	A	A	A	-	A	A	A	A	-	A	C	A	A	-	A	A	A	A
Vinyl Acetate	C	C	-	A	A	-	A	-	-	-	-	-	-	-	-	-	A	C	C
Water, Deionized	A	A	A	A	A	A	A	A	A	A	-	-	A	A	A	A	A	A	A
Water, Distilled	A	A	A	A	A	-	A	A	A	A	-	A	A	A	A	A	A	A	A
Water, Salt	A	A	A	A	A	C	B	A	C	-	-	A	A	A	A	A	A	A	A
Whiskey	A	A	A	A	A	A	A	A	A	-	-	C	A	A	-	A	A	A	A
Wines	A	A	A	A	A	A	A	A	-	-	-	C	A	A	-	A	A	A	A
Xylene	C	C	C	A	A	A	A	A	A	-	-	A	C	C	-	A	A	A	C
Zinc Borate	A	-	A	A	-	-	A	A	A	-	-	-	-	-	-	A	A	A	-
Zinc Chloride	A	A	A	A	-	C	C	A	A	A	A	C	A	A	A	A	A	A	A
Zinc Hydrosulfite	A	-	-	-	-	B	B	A	A	A	-	C	-	-	-	-	A	A	-
Zinc Nitrate	A	-	A	A	A	-	A	A	A	-	-	-	-	-	-	A	A	A	A
Zinc Phosphate	A	-	A	A	-	-	A	A	A	-	-	-	-	-	-	A	A	A	-
Zinc Stearate	A	-	A	A	-	-	A	A	A	-	-	-	-	-	-	A	A	A	-
Zinc Sulfate	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A