

WARNING

The information is to be used as a guide ONLY for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application.

Ratings of chemical behavior listed in this chart apply at a 48-hr exposure period. TCS Micropumps does not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose.

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Acetaldehyde	A-Excellent	B-Good	A-Excellent	A-Excellent	C ¹ -Fair	A-Excellent	A-Excellent	A-Excellent	A-Excellent	D-Severe Effect
Acetamide	A-Excellent	A-Excellent	A-Excellent	A-Excellent	D-Severe Effect	N/A	A-Excellent	B-Good	A-Excellent	B-Good
Acetate Solvent	N/A	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	C-Fair	A-Excellent	D-Severe Effect
Acetic Acid	D-Severe Effect	B-Good	A-Excellent	C-Fair	B ¹ -Good	A-Excellent	A-Excellent	C-Fair	B-Good	B-Good
Acetic Acid 20%	C-Fair	B-Good	A-Excellent	A ¹ -Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent	B-Good
Acetic Acid 80%	D-Severe Effect	B-Good	A-Excellent	B ¹ -Good	B ¹ -Good	A-Excellent	A-Excellent	B-Good	B-Good	B-Good
Acetic Acid, Glacial	D-Severe Effect	B-Good	B-Good	B ¹ -Good	B ¹ -Good	N/A	A-Excellent	B-Good	A-Excellent	D-Severe Effect
Acetic Anhydride	D-Severe Effect	A ¹ -Excellent	B-Good	C-Fair	D-Severe Effect	N/A	A-Excellent	C-Fair	A-Excellent	D-Severe Effect
Acetone	A-Excellent	A-Excellent	A-Excellent	B ¹ -Good	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Acetyl Bromide	N/A	N/A	N/A	N/A	N/A	N/A	A-Excellent	N/A	N/A	N/A
Acetyl Chloride (dry)	D-Severe Effect	D-Severe Effect	D-Severe Effect	D-Severe Effect	D-Severe Effect	N/A	A-Excellent	C-Fair	A-Excellent	A-Excellent
Acetylene	A-Excellent	A-Excellent	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Acrylonitrile	N/A	B ¹ -Good	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A ¹ -Excellent	D-Severe Effect
Adipic Acid	N/A	A-Excellent	A ² -Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	A ² -Excellent	A ² -Excellent
Alcohols:Amyl	A-Excellent	B-Good	A-Excellent	B ² -Good	B ¹ -Good	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Alcohols:Benzyl	A-Excellent	B-Good	B-Good	C-Fair	N/A	A-Excellent	A-Excellent	N/A	B-Good	A-Excellent
Alcohols:Butyl	A-Excellent	B-Good	A ² -Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Alcohols:Diacetone	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Alcohols:Ethyl	A ¹ -Excellent	B-Good	A-Excellent	A ² -Excellent	B ² -Good	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Alcohols:Hexyl	A-Excellent	A-Excellent	C-Fair	A-Excellent	N/A	N/A	A-Excellent	B-Good	A-Excellent	C-Fair
Alcohols:Isobutyl	A-Excellent	B-Good	A-Excellent	A-Excellent	N/A	N/A	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent
Alcohols:Isopropyl	A-Excellent	B-Good	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A ² -Excellent	A-Excellent	B-Good	A-Excellent
Alcohols:Methyl	A-Excellent	A ¹ -Excellent	A-Excellent	B ¹ -Good	B ¹ -Good	A-Excellent	A-Excellent	A-Excellent	A-Excellent	C-Fair
Alcohols:Octyl	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	N/A	B-Good	A-Excellent	B-Good
Alcohols:Propyl	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Aluminum Chloride	N/A	D-Severe Effect	A-Excellent	A ¹ -Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	B-Good	B-Good	A-Excellent
Aluminum Chloride 20%	C-Fair	D-Severe Effect	A-Excellent	A ¹ -Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	B-Good	C ¹ -Fair	A-Excellent
Aluminum Fluoride	C-Fair	B ¹ -Good	A-Excellent	B ¹ -Good	N/A	N/A	A-Excellent	B-Good	D-Severe Effect	A-Excellent
Aluminum Hydroxide	A-Excellent	B ¹ -Good	A-Excellent	B ¹ -Good	B ¹ -Good	N/A	A-Excellent	N/A	C ¹ -Fair	A-Excellent
Aluminum Nitrate	B ¹ -Good	D-Severe Effect	A ² -Excellent	A ² -Excellent	A ¹ -Excellent	N/A	A-Excellent	B ¹ -Good	A-Excellent	A ² -Excellent
Aluminum Potassium Sulfate 10%	C-Fair	C-Fair	A-Excellent	A ¹ -Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Aluminum Potassium Sulfate 100%	C-Fair	C-Fair	A-Excellent	A ¹ -Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	B ² -Good	A-Excellent
Aluminum Sulfate	B ¹ -Good	B ¹ -Good	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	B ² -Good	A-Excellent
Alums	N/A	A-Excellent	A ¹ -Excellent	A-Excellent	N/A	N/A	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent
Amines	D-Severe Effect	B-Good	B-Good	A ² -Excellent	D-Severe Effect	A-Excellent	A ² -Excellent	B-Good	A-Excellent	D-Severe Effect
Ammonia 10%	D-Severe Effect	A ² -Excellent	A-Excellent	A ² -Excellent	D-Severe Effect	A-Excellent	A-Excellent	N/A	A-Excellent	D-Severe Effect

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Ammonia Nitrate	C-Fair	C-Fair	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	D-Severe Effect
Ammonia, anhydrous	D-Severe Effect	A ¹ -Excellent	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	C-Fair	A ² -Excellent	D-Severe Effect
Ammonia, liquid	D-Severe Effect	A-Excellent	A-Excellent	A ¹ -Excellent	D-Severe Effect	B-Good	A-Excellent	N/A	A ² -Excellent	D-Severe Effect
Ammonium Acetate	N/A	A-Excellent	A-Excellent	N/A	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Ammonium Bifluoride	D-Severe Effect	B-Good	A ² -Excellent	A ¹ -Excellent	N/A	N/A	A-Excellent	N/A	B ¹ -Good	A-Excellent
Ammonium Carbonate	D-Severe Effect	B-Good	A-Excellent	A ² -Excellent	N/A	N/A	A-Excellent	C-Fair	B-Good	A-Excellent
Ammonium Caseinate	D-Severe Effect	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	N/A
Ammonium Chloride	B-Good	B ¹ -Good	A-Excellent	A ¹ -Excellent	A ² -Excellent	N/A	A-Excellent	C-Fair	B ² -Good	A-Excellent
Ammonium Hydroxide	C-Fair	B ² -Good	A-Excellent	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	B-Good
Ammonium Nitrate	A ² -Excellent	B ¹ -Good	A-Excellent	A ² -Excellent	N/A	A-Excellent	A-Excellent	C-Fair	A-Excellent	A-Excellent
Ammonium Oxalate	B-Good	N/A	A-Excellent	A-Excellent	A ¹ -Excellent	N/A	N/A	N/A	A-Excellent	N/A
Ammonium Persulfate	D-Severe Effect	D-Severe Effect	B-Good	A ¹ -Excellent	N/A	N/A	A ¹ -Excellent	D-Severe Effect	B-Good	A-Excellent
Ammonium Phosphate, Dibasic	B ² -Good	B ¹ -Good	A-Excellent	A ¹ -Excellent	A ² -Excellent	N/A	A ² -Excellent	A-Excellent	C-Fair	A-Excellent
Ammonium Phosphate, Monobasic	B-Good	B-Good	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	C-Fair	A-Excellent
Ammonium Phosphate, Tribasic	B-Good	B-Good	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent
Ammonium Sulfate	B ¹ -Good	A ¹ -Excellent	A-Excellent	A ² -Excellent	A ² -Excellent	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent
Ammonium Sulfite	D-Severe Effect	D-Severe Effect	A ¹ -Excellent	N/A	N/A	N/A	A ² -Excellent	N/A	B-Good	D-Severe Effect
Ammonium Thiosulfate	B-Good	N/A	A ¹ -Excellent	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	N/A
Amyl Acetate	B ¹ -Good	A-Excellent	A-Excellent	A ² -Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Amyl Alcohol	A-Excellent	B-Good	A-Excellent	B ² -Good	B ² -Good	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Amyl Chloride	A-Excellent	A ¹ -Excellent	D-Severe Effect	A ¹ -Excellent	N/A	N/A	A-Excellent	D-Severe Effect	A ² -Excellent	B ¹ -Good
Aniline	A ¹ -Excellent	C-Fair	B-Good	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	B-Good	B-Good	A-Excellent
Aniline Hydrochloride	N/A	D-Severe Effect	B-Good	D-Severe Effect	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent
Antifreeze	D-Severe Effect	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	N/A	C-Fair	A-Excellent	A-Excellent
Antimony Trichloride	N/A	D-Severe Effect	B ¹ -Good	D-Severe Effect	A ² -Excellent	A-Excellent	A-Excellent	N/A	D-Severe Effect	A ² -Excellent
Aqua Regia (80% HCl, 20% HNO3)	D-Severe Effect	D-Severe Effect	C-Fair	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	D-Severe Effect	B-Good
Arochlor 1248	N/A	A-Excellent	B-Good	A ² -Excellent	N/A	A-Excellent	A-Excellent	B-Good	B-Good	A-Excellent
Aromatic Hydrocarbons	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	N/A	A-Excellent	N/A	D-Severe Effect	C-Fair	A-Excellent
Arsenic Acid	D-Severe Effect	D-Severe Effect	A ² -Excellent	A ² -Excellent	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	A ² -Excellent	A ² -Excellent
Arsenic Salts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A-Excellent
Asphalt	B ² -Good	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent
Barium Carbonate	A-Excellent	D-Severe Effect	A-Excellent	A ² -Excellent	A ² -Excellent	N/A	A-Excellent	N/A	B-Good	A-Excellent
Barium Chloride	A-Excellent	D-Severe Effect	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent
Barium Cyanide	B-Good	C ¹ -Fair	A-Excellent	A-Excellent	N/A	N/A	A ¹ -Excellent	N/A	A ² -Excellent	A-Excellent
Barium Hydroxide	D-Severe Effect	D-Severe Effect	A-Excellent	A ² -Excellent	D-Severe Effect	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent
Barium Nitrate	B ² -Good	B-Good	A-Excellent	A ¹ -Excellent	D-Severe Effect	N/A	A ¹ -Excellent	B-Good	B-Good	A-Excellent
Barium Sulfate	B ² -Good	B-Good	A-Excellent	A ² -Excellent	D-Severe Effect	N/A	A-Excellent	A-Excellent	B ¹ -Good	A-Excellent
Barium Sulfide	A-Excellent	D-Severe Effect	A-Excellent	B ² -Good	N/A	A-Excellent	A-Excellent	A-Excellent	B ² -Good	A-Excellent
Beer	A ¹ -Excellent	A-Excellent	A-Excellent	A ² -Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Beet Sugar Liquids	B-Good	A-Excellent	A-Excellent	A ¹ -Excellent	N/A	N/A	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent
Benzaldehyde	A-Excellent	B-Good	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent	A ¹ -Excellent	D-Severe Effect	B-Good	D-Severe Effect
Benzene	A ¹ -Excellent	B-Good	D-Severe Effect	C ¹ -Fair	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Benzene Sulfonic Acid	N/A	D-Severe Effect	D-Severe Effect	B-Good	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Benzoic Acid	B-Good	B-Good	D-Severe Effect	A ¹ -Excellent	B ¹ -Good	A-Excellent	A ² -Excellent	B-Good	B-Good	A-Excellent

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Benzol	A-Excellent	B ¹ -Good	D-Severe Effect	A ¹ -Excellent	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	A ¹ -Excellent	A-Excellent
Benzonitrile	N/A	N/A	N/A	N/A	A ² -Excellent	N/A	A ² -Excellent	A ¹ -Excellent	D-Severe Effect	N/A
Benzyl Chloride	A-Excellent	D-Severe Effect	D-Severe Effect	N/A	N/A	N/A	N/A	D-Severe Effect	B ¹ -Good	A ² -Excellent
Bleaching Liquors	N/A	N/A	A-Excellent	D-Severe Effect	N/A	N/A	A-Excellent	B-Good	N/A	A-Excellent
Borax (Sodium Borate)	B-Good	B ¹ -Good	A-Excellent	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Boric Acid	A-Excellent	D-Severe Effect	A-Excellent	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent
Brewery Slop	B-Good	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Bromine	D-Severe Effect	D-Severe Effect	D-Severe Effect	D-Severe Effect	C ¹ -Fair	D-Severe Effect	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent
Butadiene	A-Excellent	A-Excellent	C-Fair	A ¹ -Excellent	D-Severe Effect	N/A	A ² -Excellent	D-Severe Effect	A ¹ -Excellent	B-Good
Butane	A-Excellent	A-Excellent	D-Severe Effect	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A ² -Excellent	A-Excellent
Butanol (Butyl Alcohol)	A-Excellent	B-Good	A ² -Excellent	D-Severe Effect	B ¹ -Good	A-Excellent	A ² -Excellent	B-Good	A ¹ -Excellent	A-Excellent
Butter	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	B-Good	A-Excellent	A-Excellent
Buttermilk	A-Excellent	A-Excellent	A ¹ -Excellent	A ¹ -Excellent	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Butyl Amine	C ¹ -Fair	A ² -Excellent	N/A	B ² -Good	D-Severe Effect	A-Excellent	A ² -Excellent	B ¹ -Good	A-Excellent	D-Severe Effect
Butyl Ether	D-Severe Effect	A ¹ -Excellent	D-Severe Effect	A ¹ -Excellent	N/A	N/A	A ¹ -Excellent	D-Severe Effect	A ¹ -Excellent	D-Severe Effect
Butyl Phthalate	N/A	B ² -Good	B ² -Good	B ² -Good	D-Severe Effect	A-Excellent	A ² -Excellent	A ¹ -Excellent	B ² -Good	C ¹ -Fair
Butylacetate	A-Excellent	A-Excellent	B-Good	B ¹ -Good	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Butylene	A-Excellent	A-Excellent	D-Severe Effect	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Butyric Acid	A-Excellent	B-Good	B-Good	A-Excellent	D-Severe Effect	A-Excellent	A ² -Excellent	D-Severe Effect	B ² -Good	B ¹ -Good
Calcium Bisulfate	N/A	N/A	A-Excellent	A-Excellent	D-Severe Effect	N/A	N/A	C-Fair	A-Excellent	N/A
Calcium Bisulfide	D-Severe Effect	C-Fair	C-Fair	A-Excellent	N/A	A-Excellent	A-Excellent	C-Fair	B-Good	A-Excellent
Calcium Bisulfite	D-Severe Effect	D-Severe Effect	D-Severe Effect	A ¹ -Excellent	D-Severe Effect	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Calcium Carbonate	A-Excellent	D-Severe Effect	A-Excellent	A ¹ -Excellent	C ² -Fair	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Calcium Chlorate	A-Excellent	N/A	A-Excellent	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent
Calcium Chloride	D-Severe Effect	D-Severe Effect	A-Excellent	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	B ² -Good	A-Excellent
Calcium Hydroxide	D-Severe Effect	C ¹ -Fair	A-Excellent	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Calcium Hypochlorite	D-Severe Effect	D-Severe Effect	B ¹ -Good	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent	B-Good	B ¹ -Good	A-Excellent
Calcium Nitrate	D-Severe Effect	B ¹ -Good	A ² -Excellent	A ² -Excellent	A ² -Excellent	A-Excellent	A ² -Excellent	B ¹ -Good	B ² -Good	A ² -Excellent
Calcium Oxide	A-Excellent	C-Fair	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good
Calcium Sulfate	D-Severe Effect	C-Fair	A-Excellent	A ² -Excellent	A ² -Excellent	A-Excellent	A-Excellent	N/A	B-Good	A-Excellent
Calgon	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent
Cane Juice	A-Excellent	B-Good	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Carbolic Acid (Phenol)	D-Severe Effect	A-Excellent	B-Good	C-Fair	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Carbon Bisulfide	A-Excellent	B-Good	D-Severe Effect	A-Excellent	N/A	D-Severe Effect	N/A	N/A	B-Good	A-Excellent
Carbon Dioxide (dry)	A-Excellent	B ¹ -Good	B-Good	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	B-Good	A ¹ -Excellent	B-Good
Carbon Dioxide (wet)	A-Excellent	A ¹ -Excellent	B-Good	A ¹ -Excellent	N/A	B-Good	A-Excellent	B-Good	A ¹ -Excellent	B-Good
Carbon Disulfide	A ¹ -Excellent	A-Excellent	D-Severe Effect	C ¹ -Fair	D-Severe Effect	D-Severe Effect	A-Excellent	N/A	B-Good	A ¹ -Excellent
Carbon Monoxide	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	N/A	B-Good	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent
Carbon Tetrachloride	B ¹ -Good	D-Severe Effect	D-Severe Effect	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Carbon Tetrachloride (dry)	N/A	D-Severe Effect	B ¹ -Good	N/A	N/A	N/A	A-Excellent	D-Severe Effect	B ² -Good	A ² -Excellent
Carbon Tetrachloride (wet)	A ¹ -Excellent	D-Severe Effect	D-Severe Effect	N/A	N/A	N/A	A-Excellent	D-Severe Effect	A ² -Excellent	N/A
Carbonated Water	A-Excellent	A-Excellent	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Carbonic Acid	B ¹ -Good	B ¹ -Good	B-Good	A ² -Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Catsup	B-Good	D-Severe Effect	A-Excellent	A-Excellent	N/A	A-Excellent	N/A	N/A	A-Excellent	A-Excellent

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Chloric Acid	D-Severe Effect	D-Severe Effect	N/A	N/A	N/A	N/A	A-Excellent	N/A	C ¹ -Fair	N/A
Chlorinated Glue	D-Severe Effect	N/A	B-Good	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Chlorine (dry)	D-Severe Effect	C ¹ -Fair	A-Excellent	D-Severe Effect	N/A	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Chlorine Water	D-Severe Effect	D-Severe Effect	C-Fair	A ¹ -Excellent	N/A	D-Severe Effect	A-Excellent	D-Severe Effect	C-Fair	A-Excellent
Chlorine, Anhydrous Liquid	A ¹ -Excellent	D-Severe Effect	B-Good	C ¹ -Fair	C-Fair	D-Severe Effect	A-Excellent	D-Severe Effect	C-Fair	A-Excellent
Chloroacetic Acid	D-Severe Effect	D-Severe Effect	B-Good	C ¹ -Fair	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A ¹ -Excellent	D-Severe Effect
Chlorobenzene (Mono)	D-Severe Effect	A-Excellent	D-Severe Effect	C ¹ -Fair	D-Severe Effect	A-Excellent	B-Good	D-Severe Effect	B-Good	A-Excellent
Chlorobromomethane	N/A	N/A	B-Good	N/A	N/A	N/A	A-Excellent	D-Severe Effect	N/A	A-Excellent
Chloroform	A-Excellent	B ¹ -Good	D-Severe Effect	C ¹ -Fair	D-Severe Effect	A-Excellent	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent
Chlorosulfonic Acid	D-Severe Effect	C-Fair	D-Severe Effect	C ¹ -Fair	C ¹ -Fair	A-Excellent	A-Excellent	D-Severe Effect	B ² -Good	D-Severe Effect
Chocolate Syrup	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Chromic Acid 10%	D-Severe Effect	D-Severe Effect	C-Fair	D-Severe Effect	B-Good	D-Severe Effect	A-Excellent	C-Fair	B-Good	B-Good
Chromic Acid 30%	D-Severe Effect	D-Severe Effect	B-Good	D-Severe Effect	C-Fair	A-Excellent	A-Excellent	C-Fair	B ² -Good	A-Excellent
Chromic Acid 5%	D-Severe Effect	C-Fair	A-Excellent	D-Severe Effect	B-Good	A-Excellent	A-Excellent	C-Fair	A-Excellent	A-Excellent
Chromic Acid 50%	D-Severe Effect	D-Severe Effect	B-Good	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	C-Fair	B ² -Good	A-Excellent
Chromium Salts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cider	A-Excellent	B-Good	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	B ¹ -Good	A-Excellent	A-Excellent
Citric Acid	B ¹ -Good	C-Fair	A-Excellent	A ¹ -Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent
Citric Oils	B-Good	C-Fair	B-Good	A-Excellent	N/A	A-Excellent	N/A	N/A	A-Excellent	A-Excellent
Cloroxr (Bleach)	D-Severe Effect	A-Excellent	B-Good	D-Severe Effect	N/A	B-Good	A-Excellent	N/A	A-Excellent	A-Excellent
Coffee	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	N/A	A-Excellent	A-Excellent	A-Excellent
Copper Chloride	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A ¹ -Excellent	D-Severe Effect	A-Excellent
Copper Cyanide	A-Excellent	D-Severe Effect	A-Excellent	B ¹ -Good	D-Severe Effect	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Copper Fluoborate	B-Good	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A	D-Severe Effect	A-Excellent
Copper Nitrate	A-Excellent	D-Severe Effect	N/A	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent	N/A	A ² -Excellent	A-Excellent
Copper Sulfate >5%	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Copper Sulfate 5%	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Cream	A-Excellent	A-Excellent	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Cresols	D-Severe Effect	A-Excellent	D-Severe Effect	A ¹ -Excellent	D-Severe Effect	A-Excellent	N/A	D-Severe Effect	A-Excellent	A-Excellent
Cresylic Acid	D-Severe Effect	B ² -Good	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Cupric Acid	N/A	D-Severe Effect	A ² -Excellent	A ² -Excellent	A ¹ -Excellent	N/A	A-Excellent	A ¹ -Excellent	B ² -Good	A ² -Excellent
Cyanic Acid	D-Severe Effect	N/A	N/A	A ¹ -Excellent	N/A	N/A	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent
Cyclohexane	A ¹ -Excellent	A-Excellent	D-Severe Effect	A ² -Excellent	B-Good	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Cyclohexanone	A-Excellent	A-Excellent	B-Good	C-Fair	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A ² -Excellent	D-Severe Effect
Detergents	A ¹ -Excellent	B-Good	A-Excellent	A ¹ -Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent
Diacetone Alcohol	N/A	A ¹ -Excellent	A-Excellent	A-Excellent	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	B-Good	D-Severe Effect
Dichlorobenzene	N/A	B ¹ -Good	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B ¹ -Good	C-Fair
Dichloroethane	A ¹ -Excellent	B ¹ -Good	N/A	D-Severe Effect	D-Severe Effect	A-Excellent	A ¹ -Excellent	N/A	B-Good	C-Fair
Diesel Fuel	A-Excellent	A ¹ -Excellent	D-Severe Effect	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	D-Severe Effect	A ¹ -Excellent	A-Excellent
Diethyl Ether	N/A	B-Good	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B ² -Good	D-Severe Effect
Diethylamine	B-Good	B-Good	B-Good	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect	B-Good	A-Excellent	A-Excellent
Diethylene Glycol	A ¹ -Excellent	B ¹ -Good	A ² -Excellent	C-Fair	B ¹ -Good	N/A	A ² -Excellent	B ¹ -Good	A-Excellent	A ² -Excellent
Dimethyl Aniline	D-Severe Effect	A ² -Excellent	B ² -Good	A ¹ -Excellent	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	B ² -Good	D-Severe Effect
Dimethyl Formamide	D-Severe Effect	A ¹ -Excellent	B-Good	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	C-Fair	B-Good	C-Fair

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Diphenyl	N/A	B ² -Good	D-Severe Effect	N/A	N/A	N/A	A-Excellent	D-Severe Effect	B-Good	A ² -Excellent
Diphenyl Oxide	D-Severe Effect	B ¹ -Good	D-Severe Effect	A-Excellent	N/A	N/A	A ¹ -Excellent	C-Fair	A-Excellent	A-Excellent
Dyes	C-Fair	B-Good	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Epsom Salts (Magnesium Sulfate)	B-Good	B ¹ -Good	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Ethane	A ¹ -Excellent	N/A	D-Severe Effect	A ¹ -Excellent	N/A	B-Good	A-Excellent	D-Severe Effect	A ¹ -Excellent	A-Excellent
Ethanol	A ¹ -Excellent	B-Good	A-Excellent	A ² -Excellent	B ² -Good	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Ethanolamine	D-Severe Effect	B-Good	B-Good	A ¹ -Excellent	N/A	N/A	A ¹ -Excellent	B-Good	A-Excellent	D-Severe Effect
Ether	A ¹ -Excellent	B ¹ -Good	C-Fair	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	C-Fair
Ethyl Acetate	A-Excellent	A ² -Excellent	B-Good	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	B-Good	B-Good	D-Severe Effect
Ethyl Benzoate	N/A	N/A	N/A	N/A	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	N/A	A ¹ -Excellent
Ethyl Chloride	A ¹ -Excellent	B-Good	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Ethyl Ether	A ¹ -Excellent	B ¹ -Good	D-Severe Effect	A ² -Excellent	N/A	N/A	A-Excellent	D-Severe Effect	B-Good	D-Severe Effect
Ethyl Sulfate	N/A	N/A	N/A	A ¹ -Excellent	N/A	N/A	A-Excellent	N/A	D-Severe Effect	A-Excellent
Ethylene Bromide	N/A	B-Good	C-Fair	N/A	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Ethylene Chloride	A ¹ -Excellent	B-Good	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B-Good	B-Good
Ethylene Chlorohydrin	D-Severe Effect	B-Good	B-Good	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	C-Fair	B-Good	A-Excellent
Ethylene Diamine	D-Severe Effect	B ¹ -Good	A-Excellent	A ¹ -Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	B-Good
Ethylene Dichloride	B ¹ -Good	A ¹ -Excellent	C-Fair	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Ethylene Glycol	B-Good	A-Excellent	A-Excellent	A-Excellent	B ¹ -Good	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Ethylene Oxide	D-Severe Effect	D-Severe Effect	C-Fair	D-Severe Effect	C ¹ -Fair	A-Excellent	A-Excellent	D-Severe Effect	B-Good	D-Severe Effect
Fatty Acids	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	B ¹ -Good	A-Excellent	A-Excellent	C-Fair	A-Excellent	A-Excellent
Ferric Chloride	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	A ² -Excellent	B-Good	A-Excellent	B-Good	D-Severe Effect	A-Excellent
Ferric Nitrate	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	C-Fair	B-Good	A-Excellent
Ferric Sulfate	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Ferrous Chloride	D-Severe Effect	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	N/A	D-Severe Effect	A-Excellent
Ferrous Sulfate	D-Severe Effect	B ¹ -Good	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	N/A	B-Good	B-Good
Fluoboric Acid	A ¹ -Excellent	D-Severe Effect	A ² -Excellent	D-Severe Effect	N/A	N/A	A-Excellent	N/A	B-Good	B-Good
Fluorine	D-Severe Effect	A-Excellent	A ¹ -Excellent	A ¹ -Excellent	C-Fair	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	C-Fair
Fluosilicic Acid	A ¹ -Excellent	D-Severe Effect	A ² -Excellent	C-Fair	A ¹ -Excellent	N/A	A-Excellent	N/A	B-Good	B ¹ -Good
Formaldehyde 100%	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent	D-Severe Effect
Formaldehyde 40%	A ² -Excellent	B-Good	A-Excellent	A ² -Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent
Formic Acid	A ² -Excellent	A-Excellent	A-Excellent	C ¹ -Fair	A ¹ -Excellent	C-Fair	A-Excellent	B-Good	A ¹ -Excellent	C-Fair
Freon 113	A-Excellent	N/A	D-Severe Effect	A-Excellent	B ¹ -Good	A-Excellent	A-Excellent	D-Severe Effect	N/A	B-Good
Freon 12	B-Good	B ¹ -Good	B-Good	A ² -Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	B-Good	B-Good
Freon 22	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Freon TF	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	B-Good
Freonr 11	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	B-Good
Fruit Juice	D-Severe Effect	A-Excellent	N/A	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent
Fuel Oils	A-Excellent	C ¹ -Fair	D-Severe Effect	A ¹ -Excellent	B ¹ -Good	A-Excellent	B-Good	D-Severe Effect	A-Excellent	A-Excellent
Furan Resin	D-Severe Effect	A-Excellent	C-Fair	A ¹ -Excellent	N/A	N/A	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Furfural	A-Excellent	A ¹ -Excellent	D-Severe Effect	A ¹ -Excellent	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	B-Good	D-Severe Effect
Gallic Acid	N/A	D-Severe Effect	B-Good	N/A	N/A	N/A	B-Good	D-Severe Effect	B-Good	A-Excellent
Gasoline (high-aromatic)	B-Good	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	N/A	B-Good	D-Severe Effect	A-Excellent	A-Excellent
Gasoline, leaded, ref.	A-Excellent	A-Excellent	D-Severe Effect	A ² -Excellent	A ² -Excellent	A-Excellent	A-Excellent	D-Severe Effect	A ² -Excellent	A ¹ -Excellent

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Gasoline, unleaded	A-Excellent	A ² -Excellent	D-Severe Effect	A ² -Excellent	A ² -Excellent	N/A	A-Excellent	D-Severe Effect	A ² -Excellent	A ¹ -Excellent
Gelatin	B-Good	A-Excellent	A-Excellent	B-Good	N/A	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent
Glucose	A-Excellent	A-Excellent	A-Excellent	B-Good	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Glue, P.V.A.	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	A ² -Excellent	B-Good
Glycerin	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Glycolic Acid	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Gold Monocyanide	A-Excellent	N/A	N/A	A-Excellent	N/A	N/A	D-Severe Effect	N/A	A-Excellent	A-Excellent
Grape Juice	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Grease	D-Severe Effect	N/A	D-Severe Effect	A-Excellent	N/A	N/A	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Heptane	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	B-Good	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Hexane	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Honey	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Hydraulic Oil (Petro)	B-Good	A-Excellent	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Hydraulic Oil (Synthetic)	N/A	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Hydrazine	B-Good	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Hydrobromic Acid 100%	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	N/A	D-Severe Effect	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent
Hydrobromic Acid 20%	C-Fair	D-Severe Effect	A-Excellent	B ¹ -Good	N/A	D-Severe Effect	N/A	D-Severe Effect	D-Severe Effect	A-Excellent
Hydrochloric Acid 100%	C-Fair	D-Severe Effect	D-Severe Effect	N/A	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent
Hydrochloric Acid 20%	C-Fair	D-Severe Effect	A-Excellent	A ¹ -Excellent	B ¹ -Good	A-Excellent	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent
Hydrochloric Acid 37%	C-Fair	D-Severe Effect	C-Fair	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	B-Good	D-Severe Effect	A-Excellent
Hydrochloric Acid, Dry Gas	N/A	D-Severe Effect	N/A	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	D-Severe Effect	N/A
Hydrocyanic Acid	B-Good	A-Excellent	B-Good	A-Excellent	N/A	A-Excellent	A-Excellent	C-Fair	A-Excellent	A-Excellent
Hydrocyanic Acid (Gas 10%)	C-Fair	N/A	A-Excellent	N/A	B ¹ -Good	A-Excellent	A-Excellent	D-Severe Effect	N/A	A-Excellent
Hydrofluoric Acid 100%	D-Severe Effect	D-Severe Effect	D-Severe Effect	N/A	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	B ¹ -Good	B-Good
Hydrofluoric Acid 20%	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent
Hydrofluoric Acid 50%	D-Severe Effect	D-Severe Effect	D-Severe Effect	C ² -Fair	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	D-Severe Effect	B-Good
Hydrofluoric Acid 75%	D-Severe Effect	D-Severe Effect	C-Fair	B ¹ -Good	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	D-Severe Effect	B-Good
Hydrofluosilicic Acid 100%	A-Excellent	D-Severe Effect	A-Excellent	C ¹ -Fair	N/A	A-Excellent	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent
Hydrofluosilicic Acid 20%	B-Good	D-Severe Effect	A-Excellent	C ¹ -Fair	N/A	N/A	A-Excellent	D-Severe Effect	B ¹ -Good	A-Excellent
Hydrogen Gas	N/A	A-Excellent	A-Excellent	N/A	A ² -Excellent	N/A	A-Excellent	C-Fair	A-Excellent	A-Excellent
Hydrogen Peroxide 10%	D-Severe Effect	A-Excellent	A-Excellent	C ¹ -Fair	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Hydrogen Peroxide 100%	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	A ² -Excellent	A-Excellent
Hydrogen Peroxide 30%	D-Severe Effect	A-Excellent	B-Good	B-Good	A ² -Excellent	A-Excellent	A-Excellent	B-Good	B-Good	A-Excellent
Hydrogen Peroxide 50%	D-Severe Effect	A-Excellent	B-Good	N/A	A ² -Excellent	A-Excellent	A-Excellent	B-Good	A ² -Excellent	A-Excellent
Hydrogen Sulfide (aqua)	C-Fair	B-Good	B-Good	A-Excellent	A-Excellent	A-Excellent	A-Excellent	C-Fair	A-Excellent	D-Severe Effect
Hydrogen Sulfide (dry)	N/A	B-Good	B-Good	A-Excellent	N/A	A-Excellent	A-Excellent	C-Fair	A-Excellent	D-Severe Effect
Hydroquinone	A-Excellent	B-Good	D-Severe Effect	N/A	N/A	N/A	A-Excellent	N/A	B-Good	B-Good
Hydroxyacetic Acid 70%	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent
Ink	B-Good	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Iodine	D-Severe Effect	A-Excellent	B-Good	C-Fair	N/A	C-Fair	A-Excellent	N/A	D-Severe Effect	A-Excellent
Iodine (in alcohol)	D-Severe Effect	B-Good	A-Excellent	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A
Iodoform	N/A	N/A	A-Excellent	N/A	N/A	N/A	C-Fair	N/A	A-Excellent	N/A
Isooctane	N/A	A ¹ -Excellent	D-Severe Effect	A ² -Excellent	B ¹ -Good	A-Excellent	A-Excellent	D-Severe Effect	A ¹ -Excellent	A ¹ -Excellent
Isopropyl Acetate	D-Severe Effect	D-Severe Effect	B-Good	A-Excellent	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Isopropyl Ether	D-Severe Effect	A-Excellent	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	A ¹ -Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Isotane	N/A	D-Severe Effect	N/A	A-Excellent	N/A	N/A	N/A	N/A	N/A	A-Excellent
Jet Fuel (JP3, JP4, JP5)	A ¹ -Excellent	A-Excellent	D-Severe Effect	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Kerosene	A ² -Excellent	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Ketones	D-Severe Effect	B-Good	A-Excellent	C-Fair	D-Severe Effect	A-Excellent	A-Excellent	N/A	A-Excellent	D-Severe Effect
Lacquer Thinners	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	B-Good	N/A	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Lacquers	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Lactic Acid	B-Good	B-Good	A-Excellent	B ¹ -Good	B-Good	A-Excellent	A-Excellent	A-Excellent	B ¹ -Good	A-Excellent
Lard	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A ¹ -Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Latex	B-Good	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent
Lead Acetate	B-Good	D-Severe Effect	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	B ¹ -Good	D-Severe Effect
Lead Nitrate	N/A	D-Severe Effect	A ² -Excellent	N/A	N/A	N/A	A ¹ -Excellent	B ¹ -Good	B ¹ -Good	A ² -Excellent
Lead Sulfamate	A-Excellent	C-Fair	A-Excellent	A-Excellent	A ¹ -Excellent	N/A	B-Good	B-Good	C-Fair	A-Excellent
Ligroin	B-Good	D-Severe Effect	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Lime	B-Good	A-Excellent	D-Severe Effect	A-Excellent	N/A	N/A	A ¹ -Excellent	N/A	A-Excellent	A-Excellent
Linoleic Acid	B-Good	A ² -Excellent	D-Severe Effect	N/A	N/A	N/A	A-Excellent	B ¹ -Good	A-Excellent	B ¹ -Good
Lithium Chloride	A-Excellent	D-Severe Effect	A ¹ -Excellent	N/A	B ¹ -Good	N/A	A-Excellent	A ¹ -Excellent	A ² -Excellent	A ¹ -Excellent
Lithium Hydroxide	N/A	D-Severe Effect	N/A	N/A	D-Severe Effect	N/A	A-Excellent	N/A	B-Good	N/A
Lubricants	A-Excellent	A ² -Excellent	D-Severe Effect	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	D-Severe Effect	A ² -Excellent	A-Excellent
Lye: Ca(OH) ₂ Calcium Hydroxide	D-Severe Effect	C ¹ -Fair	A-Excellent	A ¹ -Excellent	D-Severe Effect	B-Good	A-Excellent	A-Excellent	B-Good	B ¹ -Good
Lye: KOH Potassium Hydroxide	A-Excellent	D-Severe Effect	A ² -Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent	C-Fair	A ¹ -Excellent	B-Good
Lye: NaOH Sodium Hydroxide	C-Fair	D-Severe Effect	B ¹ -Good	A-Excellent	D-Severe Effect	B-Good	A-Excellent	A ¹ -Excellent	B ¹ -Good	B ¹ -Good
Magnesium Bisulfate	N/A	D-Severe Effect	N/A	N/A	A ¹ -Excellent	N/A	A-Excellent	N/A	A ¹ -Excellent	N/A
Magnesium Carbonate	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	N/A	A ¹ -Excellent	N/A	B-Good	A-Excellent
Magnesium Chloride	B ¹ -Good	D-Severe Effect	A-Excellent	A-Excellent	A ² -Excellent	B-Good	A-Excellent	A-Excellent	D-Severe Effect	A ² -Excellent
Magnesium Hydroxide	A-Excellent	C ¹ -Fair	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent
Magnesium Nitrate	A-Excellent	B-Good	A-Excellent	A-Excellent	A ¹ -Excellent	N/A	A-Excellent	N/A	B-Good	A-Excellent
Magnesium Oxide	A-Excellent	B-Good	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	C-Fair
Magnesium Sulfate (Epsom Salts)	B-Good	B ¹ -Good	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Maleic Acid	A-Excellent	B ¹ -Good	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	B-Good	A-Excellent
Maleic Anhydride	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Malic Acid	A-Excellent	B ¹ -Good	D-Severe Effect	N/A	N/A	N/A	A-Excellent	B-Good	A ² -Excellent	A-Excellent
Manganese Sulfate	A ¹ -Excellent	B ¹ -Good	A ² -Excellent	N/A	A ¹ -Excellent	N/A	A-Excellent	A ¹ -Excellent	B ² -Good	A ² -Excellent
Mash	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Mayonnaise	A-Excellent	A-Excellent	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Melamine	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	C-Fair	D-Severe Effect	A-Excellent
Mercuric Chloride (dilute)	B-Good	D-Severe Effect	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	D-Severe Effect	A-Excellent
Mercuric Cyanide	N/A	D-Severe Effect	A ¹ -Excellent	A-Excellent	N/A	N/A	B-Good	A-Excellent	C-Fair	A ¹ -Excellent
Mercurous Nitrate	N/A	D-Severe Effect	A ¹ -Excellent	N/A	A ² -Excellent	N/A	A-Excellent	N/A	A ¹ -Excellent	A ¹ -Excellent
Mercury	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent
Methane	A-Excellent	A-Excellent	D-Severe Effect	N/A	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Methanol (Methyl Alcohol)	A-Excellent	A ¹ -Excellent	A-Excellent	B ¹ -Good	B ¹ -Good	A-Excellent	A-Excellent	A-Excellent	A-Excellent	C-Fair
Methyl Acetate	B-Good	A-Excellent	B-Good	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B-Good	D-Severe Effect
Methyl Acetone	D-Severe Effect	A-Excellent	A ¹ -Excellent	C-Fair	N/A	N/A	A-Excellent	N/A	A-Excellent	D-Severe Effect

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Methyl Acrylate	B-Good	N/A	B-Good	A-Excellent	N/A	N/A	N/A	D-Severe Effect	N/A	D-Severe Effect
Methyl Alcohol 10%	A-Excellent	A ¹ -Excellent	A-Excellent	B ¹ -Good	B ¹ -Good	A-Excellent	A-Excellent	A-Excellent	A-Excellent	C-Fair
Methyl Bromide	D-Severe Effect	D-Severe Effect	D-Severe Effect	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Methyl Butyl Ketone	D-Severe Effect	N/A	A ¹ -Excellent	C-Fair	D-Severe Effect	A-Excellent	N/A	D-Severe Effect	A-Excellent	D-Severe Effect
Methyl Cellosolve	D-Severe Effect	B-Good	B ² -Good	C-Fair	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	B-Good	D-Severe Effect
Methyl Chloride	B-Good	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	A-Excellent	A ¹ -Excellent
Methyl Dichloride	D-Severe Effect	N/A	D-Severe Effect	A-Excellent	N/A	N/A	N/A	N/A	N/A	A ¹ -Excellent
Methyl Ethyl Ketone	C-Fair	B-Good	A ² -Excellent	C ¹ -Fair	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Methyl Ethyl Ketone Peroxide	N/A	N/A	D-Severe Effect	N/A	N/A	N/A	N/A	B-Good	N/A	D-Severe Effect
Methyl Isobutyl Ketone	N/A	B-Good	B ¹ -Good	C-Fair	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B-Good	D-Severe Effect
Methyl Isopropyl Ketone	N/A	A-Excellent	C ¹ -Fair	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	C-Fair	A-Excellent	D-Severe Effect
Methyl Methacrylate	D-Severe Effect	N/A	D-Severe Effect	A-Excellent	N/A	N/A	N/A	C-Fair	B-Good	D-Severe Effect
Methylamine	D-Severe Effect	A-Excellent	A ¹ -Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	D-Severe Effect
Methylene Chloride	B-Good	C-Fair	C ¹ -Fair	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	N/A	B-Good	B-Good
Milk	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Mineral Spirits	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	C-Fair	N/A	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Molasses	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent
Monochloroacetic acid	D-Severe Effect	D-Severe Effect	C-Fair	N/A	D-Severe Effect	A-Excellent	A ² -Excellent	N/A	A ¹ -Excellent	C-Fair
Monoethanolamine	D-Severe Effect	B-Good	B-Good	A-Excellent	N/A	N/A	A-Excellent	B-Good	A-Excellent	D-Severe Effect
Morpholine	N/A	A ¹ -Excellent	D-Severe Effect	N/A	D-Severe Effect	N/A	A ² -Excellent	N/A	A ¹ -Excellent	N/A
Motor oil	B-Good	A ¹ -Excellent	D-Severe Effect	N/A	A-Excellent	A-Excellent	A-Excellent	N/A	A ² -Excellent	N/A
Mustard	C-Fair	B-Good	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	N/A	A-Excellent	D-Severe Effect
Naphtha	A ¹ -Excellent	A-Excellent	D-Severe Effect	A-Excellent	B-Good	A-Excellent	B-Good	D-Severe Effect	A-Excellent	A-Excellent
Naphthalene	A ¹ -Excellent	B ¹ -Good	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Natural Gas	B-Good	A-Excellent	D-Severe Effect	N/A	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Nickel Chloride	A-Excellent	D-Severe Effect	A ¹ -Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	C-Fair	A-Excellent
Nickel Nitrate	N/A	D-Severe Effect	A ² -Excellent	A ¹ -Excellent	D-Severe Effect	A-Excellent	A ² -Excellent	N/A	B ² -Good	A ² -Excellent
Nickel Sulfate	A-Excellent	D-Severe Effect	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	B ¹ -Good	A-Excellent
Nitrating Acid (<15% HNO3)	N/A	D-Severe Effect	N/A	N/A	N/A	N/A	A-Excellent	N/A	D-Severe Effect	N/A
Nitrating Acid (>15% H2SO4)	D-Severe Effect	D-Severe Effect	A ¹ -Excellent	D-Severe Effect	N/A	N/A	A-Excellent	N/A	C-Fair	N/A
Nitrating Acid (S1% Acid)	N/A	D-Severe Effect	N/A	N/A	N/A	N/A	A-Excellent	N/A	A-Excellent	N/A
Nitrating Acid (S15% H2SO4)	N/A	D-Severe Effect	N/A	N/A	N/A	N/A	A-Excellent	N/A	C-Fair	N/A
Nitric Acid (20%)	D-Severe Effect	D-Severe Effect	A ¹ -Excellent	B ¹ -Good	B ¹ -Good	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Nitric Acid (50%)	D-Severe Effect	D-Severe Effect	D-Severe Effect	D-Severe Effect	B-Good	D-Severe Effect	A-Excellent	D-Severe Effect	A ¹ -Excellent	A-Excellent
Nitric Acid (5-10%)	D-Severe Effect	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	C-Fair	A-Excellent	A-Excellent
Nitric Acid (Concentrated)	D-Severe Effect	D-Severe Effect	D-Severe Effect	D-Severe Effect	C ¹ -Fair	D-Severe Effect	A-Excellent	D-Severe Effect	A ¹ -Excellent	A-Excellent
Nitrobenzene	C-Fair	B-Good	B ¹ -Good	C ¹ -Fair	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B-Good	B-Good
Nitrogen Fertilizer	N/A	N/A	N/A	N/A	N/A	N/A	A-Excellent	N/A	N/A	N/A
Nitromethane	A-Excellent	A-Excellent	B ² -Good	N/A	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A ¹ -Excellent	D-Severe Effect
Nitrous Acid	N/A	D-Severe Effect	A-Excellent	D-Severe Effect	N/A	N/A	A-Excellent	N/A	B-Good	B-Good
Nitrous Oxide	N/A	B-Good	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	N/A	B-Good	B-Good
Oils:Aniline	D-Severe Effect	D-Severe Effect	B-Good	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	C-Fair
Oils:Anise	D-Severe Effect	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	N/A
Oils:Bay	D-Severe Effect	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Oils:Bone	D-Severe Effect	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Oils:Castor	A-Excellent	A-Excellent	B-Good	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Oils:Cinnamon	D-Severe Effect	N/A	N/A	A-Excellent	D-Severe Effect	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Oils:Citric	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Oils:Clove	N/A	B-Good	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Oils:Coconut	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Oils:Cod Liver	B-Good	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	B-Good	A-Excellent	A-Excellent
Oils:Corn	A-Excellent	A-Excellent	C-Fair	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	A-Excellent	B-Good
Oils:Cottonseed	A-Excellent	A-Excellent	D-Severe Effect	A ¹ -Excellent	N/A	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Oils:Creosote	D-Severe Effect	B-Good	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Oils:Diesel Fuel (20, 30, 40, 50)	D-Severe Effect	A-Excellent	D-Severe Effect	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Oils:Fuel (1, 2, 3, 5A, 5B, 6)	D-Severe Effect	C ¹ -Fair	D-Severe Effect	A ¹ -Excellent	B-Good	A-Excellent	A-Excellent	C-Fair	A-Excellent	B-Good
Oils:Ginger	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	D-Severe Effect	A-Excellent
Oils:Hydraulic Oil (Petro)	B-Good	A-Excellent	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Oils:Hydraulic Oil (Synthetic)	N/A	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Oils:Lemon	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Oils:Linseed	A-Excellent	B-Good	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Oils:Mineral	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	B-Good	A-Excellent	A-Excellent	C-Fair	A-Excellent	A-Excellent
Oils:Olive	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A ² -Excellent	N/A	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent
Oils:Orange	D-Severe Effect	A-Excellent	N/A	A-Excellent	C ¹ -Fair	N/A	N/A	D-Severe Effect	A-Excellent	A-Excellent
Oils:Palm	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Oils:Peanut	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Oils:Peppermint	D-Severe Effect	D-Severe Effect	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Oils:Pine	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	N/A	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Oils:Rapeseed	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Oils:Rosin	N/A	B ¹ -Good	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A ¹ -Excellent	A-Excellent
Oils:Sesame Seed	D-Severe Effect	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Oils:Silicone	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	C-Fair	A-Excellent	A-Excellent
Oils:Soybean	A-Excellent	A-Excellent	C-Fair	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Oils:Sperm (whale)	D-Severe Effect	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Oils:Tanning	D-Severe Effect	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Oils:Transformer	A-Excellent	A-Excellent	D-Severe Effect	B-Good	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Oils:Turbine	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Oleic Acid	A-Excellent	A-Excellent	B-Good	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	B-Good
Oleum 100%	D-Severe Effect	B-Good	D-Severe Effect	D-Severe Effect	N/A	N/A	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Oleum 25%	D-Severe Effect	B-Good	D-Severe Effect	D-Severe Effect	N/A	N/A	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Oxalic Acid (cold)	B-Good	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	A ¹ -Excellent	B-Good	A-Excellent	A-Excellent
Ozone	C-Fair	B-Good	A-Excellent	N/A	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Palmitic Acid	A-Excellent	B-Good	B ¹ -Good	A-Excellent	N/A	N/A	A ² -Excellent	D-Severe Effect	A ¹ -Excellent	A ¹ -Excellent
Paraffin	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	B-Good
Pentane	B-Good	B-Good	D-Severe Effect	A-Excellent	A-Excellent	A-Excellent	A-Excellent	D-Severe Effect	C-Fair	A-Excellent
Perchloric Acid	C-Fair	D-Severe Effect	B-Good	N/A	N/A	A-Excellent	A-Excellent	D-Severe Effect	C-Fair	A-Excellent
Perchloroethylene	B-Good	C-Fair	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A ¹ -Excellent	A-Excellent
Petrolatum	B-Good	N/A	A-Excellent	A-Excellent	N/A	A-Excellent	C-Fair	D-Severe Effect	A-Excellent	A-Excellent

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Petroleum	B-Good	D-Severe Effect	D-Severe Effect	A ² -Excellent	N/A	A-Excellent	A ² -Excellent	D-Severe Effect	A ¹ -Excellent	A ² -Excellent
Phenol (10%)	B-Good	A-Excellent	B-Good	C-Fair	B ¹ -Good	N/A	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Phenol (Carbolic Acid)	D-Severe Effect	A-Excellent	B-Good	C-Fair	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Phosphoric Acid (>40%)	D-Severe Effect	C-Fair	B-Good	B-Good	A-Excellent	A-Excellent	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent
Phosphoric Acid (crude)	D-Severe Effect	C-Fair	B-Good	B-Good	A-Excellent	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Phosphoric Acid (molten)	D-Severe Effect	C-Fair	N/A	N/A	N/A	N/A	N/A	N/A	C-Fair	N/A
Phosphoric Acid (S40%)	D-Severe Effect	C-Fair	B-Good	A-Excellent	A-Excellent	N/A	A-Excellent	C-Fair	C-Fair	A-Excellent
Phosphoric Acid Anhydride	D-Severe Effect	C-Fair	N/A	N/A	D-Severe Effect	N/A	N/A	N/A	N/A	N/A
Phosphorus	B-Good	B-Good	N/A	N/A	N/A	N/A	A ² -Excellent	N/A	A ² -Excellent	N/A
Phosphorus Trichloride	D-Severe Effect	D-Severe Effect	A ¹ -Excellent	A ¹ -Excellent	C-Fair	A-Excellent	A ² -Excellent	N/A	A ² -Excellent	A ¹ -Excellent
Photographic Developer	D-Severe Effect	N/A	B-Good	A-Excellent	A ² -Excellent	N/A	A-Excellent	B-Good	A-Excellent	A-Excellent
Photographic Solutions	D-Severe Effect	N/A	A ¹ -Excellent	B ² -Good	A ¹ -Excellent	A-Excellent	A ² -Excellent	A-Excellent	N/A	B ¹ -Good
Phthalic Acid	C-Fair	B ² -Good	A ¹ -Excellent	N/A	N/A	A-Excellent	A ² -Excellent	B ¹ -Good	A-Excellent	A ¹ -Excellent
Phthalic Anhydride	C-Fair	A-Excellent	A-Excellent	N/A	A ¹ -Excellent	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Picric Acid	A-Excellent	C-Fair	B-Good	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Plating Solutions, Antimony Plating 130°F	A-Excellent	A-Excellent	N/A	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Arsenic Plating 110°F	A-Excellent	A-Excellent	N/A	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Brass Plating: High-Speed Brass Bath 110°F	A-Excellent	A-Excellent	N/A	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Brass Plating: Regular Brass Bath 100°F	A-Excellent	A-Excellent	N/A	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Bronze Plating: Cu-Cd Bronze Bath R.T.	A-Excellent	A-Excellent	A-Excellent	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Bronze Plating: Cu-Sn Bronze Bath 160°F	B-Good	A-Excellent	A-Excellent	C-Fair	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Bronze Plating: Cu-Zn Bronze Bath 100°F	A-Excellent	A-Excellent	N/A	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Cadmium Plating: Cyanide Bath 90°F	A-Excellent	A-Excellent	N/A	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Cadmium Plating: Fluoroborate Bath 100°F	C-Fair	A-Excellent	N/A	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Chromium Plating: Barrel Chrome Bath 95°F	D-Severe Effect	A-Excellent	N/A	C-Fair	N/A	N/A	A-Excellent	N/A	D-Severe Effect	C-Fair
Plating Solutions, Chromium Plating: Black Chrome Bath 115°F	D-Severe Effect	A-Excellent	N/A	C-Fair	N/A	N/A	A-Excellent	N/A	C-Fair	C-Fair
Plating Solutions, Chromium Plating: Chromic-Sulfuric Bath 130°F	D-Severe Effect	A-Excellent	N/A	C-Fair	N/A	N/A	A-Excellent	N/A	C-Fair	C-Fair
Plating Solutions, Chromium Plating: Fluoride Bath 130°F	D-Severe Effect	A-Excellent	N/A	C-Fair	N/A	N/A	A-Excellent	N/A	D-Severe Effect	C-Fair
Plating Solutions, Chromium Plating: Fluosilicate Bath 95°F	D-Severe Effect	A-Excellent	N/A	C-Fair	N/A	N/A	A-Excellent	N/A	C-Fair	C-Fair
Plating Solutions, Copper Plating (Acid): Copper Fluoroborate Bath 120°F	C-Fair	A-Excellent	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	D-Severe Effect	A-Excellent
Plating Solutions, Copper Plating (Acid): Copper Sulfate Bath R.T.	A-Excellent	A-Excellent	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	D-Severe Effect	A-Excellent
Plating Solutions, Copper Plating (Cyanide): Copper Strike Bath 120°F	A-Excellent	N/A	N/A	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Copper Plating (Cyanide): High-Speed Bath 180°F	B-Good	A-Excellent	N/A	C-Fair	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Copper Plating (Cyanide): Rochelle Salt Bath 150°F	B-Good	A-Excellent	N/A	C-Fair	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Copper Plating (Misc): Copper (Electroless)	D-Severe Effect	A-Excellent	N/A	B-Good	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent
Plating Solutions, Copper Plating (Misc): Copper Pyrophosphate	A-Excellent	A-Excellent	N/A	B-Good	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Gold Plating: Acid 75°F	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Gold Plating: Cyanide 150°F	N/A	N/A	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Gold Plating: Neutral 75°F	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Indium Sulfamate Plating R.T.	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Iron Plating: Ferrous Am Sulfate Bath 150°F	N/A	N/A	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Iron Plating: Ferrous Chloride Bath 190°F	N/A	N/A	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	D-Severe Effect	A-Excellent
Plating Solutions, Iron Plating: Ferrous Sulfate Bath 150°F	N/A	N/A	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Iron Plating: Fluoroborate Bath 145°F	N/A	N/A	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	D-Severe Effect	A-Excellent

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Plating Solutions, Iron Plating: Sulfamate 140°F	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	D-Severe Effect	A-Excellent
Plating Solutions, Iron Plating: Sulfate-Chloride Bath 160°F	N/A	N/A	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	D-Severe Effect	A-Excellent
Plating Solutions, Lead Fluoborate Plating	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Nickel Plating: Electroless 200°F	N/A	N/A	N/A	B-Good	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent
Plating Solutions, Nickel Plating: Fluoborate 100-170°F	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Nickel Plating: High-Chloride 130-160°F	N/A	N/A	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Nickel Plating: Sulfamate 100-140°F	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Nickel Plating: Watts Type 115-160°F	N/A	N/A	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Rhodium Plating 120°F	N/A	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	D-Severe Effect	A-Excellent
Plating Solutions, Silver Plating 80-120°F	N/A	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Plating Solutions, Tin-Fluoborate Plating 100°F	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Tin-Lead Plating 100°F	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Zinc Plating: Acid Chloride 140°F	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	D-Severe Effect	A-Excellent
Plating Solutions, Zinc Plating: Acid Fluoborate Bath R.T.	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Zinc Plating: Acid Sulfate Bath 150°F	N/A	N/A	N/A	D-Severe Effect	N/A	N/A	A-Excellent	N/A	C-Fair	A-Excellent
Plating Solutions, Zinc Plating: Alkaline Cyanide Bath R.T.	N/A	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Potash (Potassium Carbonate)	B-Good	D-Severe Effect	A ¹ -Excellent	A-Excellent	N/A	A-Excellent	N/A	N/A	B-Good	A-Excellent
Potassium Bicarbonate	C-Fair	D-Severe Effect	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A ¹ -Excellent	B-Good	A-Excellent
Potassium Bromide	A-Excellent	C ¹ -Fair	A ¹ -Excellent	A-Excellent	A ¹ -Excellent	N/A	A-Excellent	A ¹ -Excellent	B-Good	A-Excellent
Potassium Chlorate	B-Good	B-Good	A ¹ -Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	B-Good	B-Good	A-Excellent
Potassium Chloride	A-Excellent	D-Severe Effect	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent
Potassium Chromate	C-Fair	B ¹ -Good	A ² -Excellent	C-Fair	N/A	N/A	A ¹ -Excellent	N/A	B ¹ -Good	A-Excellent
Potassium Cyanide Solutions	C-Fair	D-Severe Effect	A ¹ -Excellent	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	B ¹ -Good	A-Excellent
Potassium Dichromate	A-Excellent	B-Good	A ¹ -Excellent	C-Fair	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	B ¹ -Good	A-Excellent
Potassium Ferricyanide	B ¹ -Good	B ² -Good	A-Excellent	A ¹ -Excellent	N/A	A-Excellent	A ² -Excellent	N/A	B ¹ -Good	A-Excellent
Potassium Ferrocyanide	N/A	B ¹ -Good	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	B-Good	A-Excellent
Potassium Hydroxide (Caustic Potash)	A-Excellent	D-Severe Effect	A ² -Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	C-Fair	A ¹ -Excellent	B-Good
Potassium Hypochlorite	N/A	D-Severe Effect	A ¹ -Excellent	N/A	N/A	N/A	A ² -Excellent	N/A	B-Good	N/A
Potassium Iodide	N/A	B ¹ -Good	A-Excellent	N/A	N/A	N/A	A ² -Excellent	N/A	A ¹ -Excellent	A-Excellent
Potassium Nitrate	A-Excellent	B-Good	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Potassium Oxalate	N/A	B ¹ -Good	N/A	N/A	N/A	N/A	A ² -Excellent	N/A	B ¹ -Good	N/A
Potassium Permanganate	A-Excellent	B ¹ -Good	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	N/A	B-Good	A-Excellent
Potassium Sulfate	B-Good	C-Fair	A ¹ -Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent
Potassium Sulfide	N/A	D-Severe Effect	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Propane (liquefied)	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	C ¹ -Fair	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Propylene	N/A	A-Excellent	D-Severe Effect	N/A	N/A	N/A	A ² -Excellent	D-Severe Effect	A ¹ -Excellent	A ¹ -Excellent
Propylene Glycol	B-Good	B-Good	A-Excellent	B-Good	B ¹ -Good	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent
Pyridine	B-Good	B-Good	B-Good	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Pyrogalllic Acid	D-Severe Effect	B-Good	B-Good	A-Excellent	N/A	N/A	A-Excellent	N/A	B-Good	A-Excellent
Resorcinol	N/A	N/A	B ¹ -Good	N/A	B ¹ -Good	A-Excellent	A ² -Excellent	N/A	N/A	A ¹ -Excellent
Rosins	B-Good	B ¹ -Good	N/A	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent
Rum	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	N/A	N/A	A-Excellent	A-Excellent	A-Excellent
Rust Inhibitors	A-Excellent	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Salad Dressings	A-Excellent	B-Good	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Salicylic Acid	D-Severe Effect	B ¹ -Good	A-Excellent	N/A	A ¹ -Excellent	A-Excellent	A ² -Excellent	N/A	B ² -Good	A ¹ -Excellent
Salt Brine (NaCl saturated)	N/A	B ¹ -Good	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent	A ¹ -Excellent	A ² -Excellent	A ² -Excellent
Sea Water	A-Excellent	B-Good	A ² -Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	C-Fair	A-Excellent
Shellac (Bleached)	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Shellac (Orange)	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Silicone	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	C-Fair	A-Excellent	A-Excellent
Silver Bromide	C-Fair	D-Severe Effect	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	D-Severe Effect	N/A
Silver Nitrate	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Soap Solutions	A-Excellent	C-Fair	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent
Soda Ash (see Sodium Carbonate)	A-Excellent	D-Severe Effect	A ² -Excellent	C-Fair	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Sodium Acetate	B-Good	B-Good	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	D-Severe Effect	B ¹ -Good	D-Severe Effect
Sodium Aluminate	B-Good	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Sodium Benzoate	N/A	A ¹ -Excellent	A-Excellent	A ² -Excellent	A ² -Excellent	A-Excellent	A ² -Excellent	N/A	N/A	A ¹ -Excellent
Sodium Bicarbonate	A-Excellent	D-Severe Effect	A ² -Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent
Sodium Bisulfate	B-Good	D-Severe Effect	A ² -Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	C-Fair	A-Excellent
Sodium Bisulfite	C-Fair	D-Severe Effect	A ² -Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	B ¹ -Good	A-Excellent
Sodium Borate (Borax)	N/A	C-Fair	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Sodium Bromide	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	N/A	N/A	A ² -Excellent	N/A	C-Fair	A ¹ -Excellent
Sodium Carbonate	A ¹ -Excellent	D-Severe Effect	A ² -Excellent	C ¹ -Fair	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Sodium Chlorate	A-Excellent	C ¹ -Fair	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	C-Fair	B ¹ -Good	A-Excellent
Sodium Chloride	A ¹ -Excellent	C-Fair	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Sodium Chromate	D-Severe Effect	B-Good	N/A	C-Fair	A ² -Excellent	A-Excellent	A-Excellent	N/A	B-Good	A-Excellent
Sodium Cyanide	A-Excellent	D-Severe Effect	A ² -Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	B ¹ -Good	A ² -Excellent
Sodium Ferrocyanide	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	B-Good	A-Excellent
Sodium Fluoride	N/A	B-Good	A-Excellent	A-Excellent	N/A	A-Excellent	A ¹ -Excellent	N/A	D-Severe Effect	A-Excellent
Sodium Hydrosulfite	N/A	A-Excellent	B-Good	N/A	N/A	A-Excellent	A-Excellent	C-Fair	N/A	A-Excellent
Sodium Hydroxide (20%)	A-Excellent	D-Severe Effect	B-Good	A ² -Excellent	A ² -Excellent	A-Excellent	A-Excellent	A ² -Excellent	B ² -Good	C-Fair
Sodium Hydroxide (50%)	A-Excellent	D-Severe Effect	B ¹ -Good	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	A ¹ -Excellent	B ¹ -Good	D-Severe Effect
Sodium Hydroxide (80%)	D-Severe Effect	D-Severe Effect	B ¹ -Good	A ¹ -Excellent	D-Severe Effect	A-Excellent	A ¹ -Excellent	A ¹ -Excellent	B ¹ -Good	D-Severe Effect
Sodium Hypochlorite (<20%)	D-Severe Effect	D-Severe Effect	B-Good	C-Fair	C-Fair	B-Good	A-Excellent	B-Good	C-Fair	A ¹ -Excellent
Sodium Hypochlorite (100%)	D-Severe Effect	D-Severe Effect	B ¹ -Good	D-Severe Effect	N/A	B-Good	A-Excellent	B-Good	D-Severe Effect	A ¹ -Excellent
Sodium Hyposulfate	N/A	D-Severe Effect	N/A	C-Fair	N/A	N/A	A-Excellent	N/A	A-Excellent	N/A
Sodium Metaphosphate	B-Good	C-Fair	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Sodium Metasilicate	D-Severe Effect	D-Severe Effect	A ¹ -Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent
Sodium Nitrate	A-Excellent	B-Good	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	B ¹ -Good	A-Excellent
Sodium Perborate	B-Good	C-Fair	A-Excellent	B-Good	N/A	A-Excellent	A-Excellent	B-Good	B-Good	A-Excellent
Sodium Peroxide	D-Severe Effect	C-Fair	A-Excellent	C-Fair	A ² -Excellent	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Sodium Polyphosphate	B-Good	D-Severe Effect	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Sodium Silicate	C-Fair	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Sodium Sulfate	B-Good	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	B ¹ -Good	A-Excellent
Sodium Sulfide	B-Good	D-Severe Effect	A ² -Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	A-Excellent	D-Severe Effect	A ² -Excellent
Sodium Sulfite	N/A	C ¹ -Fair	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent
Sodium Tetraborate	B-Good	C-Fair	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Sodium Thiosulfate (hypo)	C ¹ -Fair	A-Excellent	A ² -Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Sorghum	A-Excellent	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Soy Sauce	A-Excellent	A-Excellent	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Stannic Chloride	C-Fair	D-Severe Effect	A-Excellent	A-Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	B-Good	D-Severe Effect	A-Excellent
Stannic Fluoborate	C-Fair	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Stannous Chloride	N/A	D-Severe Effect	C-Fair	A-Excellent	N/A	A-Excellent	A-Excellent	B-Good	A ² -Excellent	A-Excellent
Starch	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent
Stearic Acid	A-Excellent	B-Good	B-Good	B-Good	A ¹ -Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent	A ¹ -Excellent
Stoddard Solvent	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Styrene	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	B-Good
Sugar (Liquids)	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Sulfate (Liquors)	D-Severe Effect	D-Severe Effect	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	B-Good	B-Good	A ¹ -Excellent
Sulfur Chloride	D-Severe Effect	D-Severe Effect	D-Severe Effect	C-Fair	N/A	A-Excellent	A-Excellent	C-Fair	D-Severe Effect	A-Excellent
Sulfur Dioxide	B-Good	B-Good	A ² -Excellent	A ¹ -Excellent	N/A	A-Excellent	A-Excellent	B-Good	A ¹ -Excellent	A-Excellent
Sulfur Dioxide (dry)	B-Good	B-Good	A ² -Excellent	A ¹ -Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Sulfur Hexafluoride	N/A	N/A	B-Good	N/A	N/A	A-Excellent	N/A	B-Good	N/A	N/A
Sulfur Trioxide	N/A	A-Excellent	C ² -Fair	A-Excellent	N/A	A-Excellent	A-Excellent	B-Good	C-Fair	A-Excellent
Sulfur Trioxide (dry)	D-Severe Effect	A-Excellent	C ¹ -Fair	A-Excellent	N/A	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Sulfuric Acid (<10%)	D-Severe Effect	D-Severe Effect	A-Excellent	A ¹ -Excellent	A ¹ -Excellent	A-Excellent	A-Excellent	C-Fair	B-Good	A-Excellent
Sulfuric Acid (10-75%)	D-Severe Effect	D-Severe Effect	B ² -Good	A ¹ -Excellent	B ¹ -Good	D-Severe Effect	A-Excellent	D-Severe Effect	D-Severe Effect	A ² -Excellent
Sulfuric Acid (75-100%)	N/A	D-Severe Effect	B ¹ -Good	C ¹ -Fair	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	D-Severe Effect	A ¹ -Excellent
Sulfuric Acid (cold concentrated)	N/A	B-Good	C-Fair	D-Severe Effect	N/A	D-Severe Effect	A-Excellent	D-Severe Effect	B-Good	B-Good
Sulfuric Acid (hot concentrated)	N/A	D-Severe Effect	D-Severe Effect	D-Severe Effect	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	C-Fair	A ² -Excellent
Sulfurous Acid	C-Fair	B ¹ -Good	B-Good	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Sulfuryl Chloride	A-Excellent	N/A	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	N/A	N/A
Tallow	A-Excellent	A-Excellent	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent
Tannic Acid	B-Good	C-Fair	A-Excellent	A-Excellent	C-Fair	N/A	A-Excellent	B-Good	A-Excellent	A-Excellent
Tanning Liquors	B-Good	A-Excellent	B-Good	A-Excellent	N/A	N/A	A-Excellent	B-Good	A ² -Excellent	A-Excellent
Tartaric Acid	B-Good	B ¹ -Good	B-Good	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	C ² -Fair	A-Excellent
Tetrachloroethane	A-Excellent	C-Fair	D-Severe Effect	A-Excellent	N/A	N/A	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Tetrachloroethylene	A-Excellent	N/A	D-Severe Effect	N/A	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Tetrahydrofuran	A-Excellent	N/A	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	D-Severe Effect
Tin Salts	N/A	D-Severe Effect	B-Good	N/A	N/A	A-Excellent	A-Excellent	B-Good	D-Severe Effect	A-Excellent
Toluene (Toluol)	C ¹ -Fair	A-Excellent	D-Severe Effect	B ¹ -Good	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	C-Fair
Tomato Juice	B-Good	A-Excellent	A-Excellent	A-Excellent	A ¹ -Excellent	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Trichloroacetic Acid	N/A	D-Severe Effect	B-Good	D-Severe Effect	D-Severe Effect	N/A	A-Excellent	D-Severe Effect	C-Fair	C-Fair
Trichloroethane	A-Excellent	D-Severe Effect	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Trichloroethylene	D-Severe Effect	D-Severe Effect	D-Severe Effect	C ¹ -Fair	N/A	A-Excellent	A-Excellent	D-Severe Effect	B-Good	A-Excellent
Trichloropropane	A-Excellent	D-Severe Effect	N/A	A-Excellent	N/A	N/A	A ¹ -Excellent	N/A	A-Excellent	A-Excellent
Tricresylphosphate	C-Fair	D-Severe Effect	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	C-Fair	B-Good	A ² -Excellent
Triethylamine	D-Severe Effect	N/A	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	D-Severe Effect
Trisodium Phosphate	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	N/A	A-Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent
Turpentine	A ² -Excellent	A-Excellent	D-Severe Effect	B-Good	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Urea	A-Excellent	B-Good	A-Excellent	N/A	D-Severe Effect	A-Excellent	A-Excellent	B-Good	B-Good	A-Excellent
Uric Acid	N/A	D-Severe Effect	N/A	N/A	N/A	N/A	A-Excellent	N/A	B-Good	N/A

Chemical	Acetal (Delrin®)	Aluminum	EPDM	Epoxy	Polycarbonate	Polyetherether Ketone (PEEK)	PTFE	Silicone	stainless steel - 316	Viton®
Urine	A-Excellent	B-Good	A ¹ -Excellent	A-Excellent	N/A	N/A	A ¹ -Excellent	N/A	A-Excellent	A ¹ -Excellent
Varnish	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	N/A	A-Excellent	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent
Vegetable Juice	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	B-Good	A-Excellent	A-Excellent
Vinegar	B-Good	D-Severe Effect	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
Vinyl Acetate	N/A	A ¹ -Excellent	B ² -Good	A ¹ -Excellent	N/A	N/A	A ² -Excellent	D-Severe Effect	B-Good	A ¹ -Excellent
Vinyl Chloride	N/A	B ¹ -Good	C-Fair	N/A	N/A	A-Excellent	A ² -Excellent	N/A	A ¹ -Excellent	A ¹ -Excellent
Water, Acid, Mine	A ¹ -Excellent	D-Severe Effect	A-Excellent	A-Excellent	B ² -Good	N/A	A-Excellent	B-Good	B-Good	A-Excellent
Water, Deionized	N/A	A ² -Excellent	A ¹ -Excellent	A ² -Excellent	N/A	N/A	A ² -Excellent	N/A	A ² -Excellent	A ¹ -Excellent
Water, Distilled	B-Good	A-Excellent	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	C-Fair	A-Excellent	A-Excellent
Water, Fresh	A ² -Excellent	B-Good	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	B-Good	A-Excellent	A-Excellent
Water, Salt	A-Excellent	B-Good	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	B-Good	B-Good	A-Excellent
Weed Killers	A-Excellent	D-Severe Effect	N/A	A-Excellent	N/A	N/A	N/A	A-Excellent	A-Excellent	A-Excellent
Whey	A-Excellent	B-Good	N/A	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	A-Excellent
Whiskey & Wines	A-Excellent	C ¹ -Fair	A-Excellent	B-Good	A ¹ -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent
White Liquor (Pulp Mill)	D-Severe Effect	B-Good	N/A	A-Excellent	N/A	N/A	A-Excellent	A-Excellent	A-Excellent	A-Excellent
White Water (Paper Mill)	B-Good	N/A	N/A	A-Excellent	N/A	N/A	N/A	N/A	A-Excellent	A-Excellent
Xylene	A-Excellent	A ¹ -Excellent	D-Severe Effect	A-Excellent	D-Severe Effect	A-Excellent	A-Excellent	D-Severe Effect	B-Good	B-Good
Zinc Chloride	C-Fair	D-Severe Effect	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	B-Good	B-Good	A-Excellent
Zinc Hydrosulfite	C-Fair	D-Severe Effect	A-Excellent	A-Excellent	N/A	N/A	A-Excellent	N/A	A-Excellent	N/A
Zinc Sulfate	C-Fair	D-Severe Effect	A-Excellent	A-Excellent	A ² -Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent	A-Excellent

Explanation of Footnotes

1. Satisfactory to 72°F (22°C)
2. Satisfactory to 120°F (48°C)

Ratings -- Chemical Effect

A = Excellent.

B = Good -- Minor Effect, slight corrosion or discoloration.

C = Fair -- Moderate Effect, not recommended for continuous use. Softening, loss of strength, swelling may occur.

D = Severe Effect, not recommended for ANY use.

N/A = Information not available.