

Chemical Compatibility Chart

Ratings – Chemical Effect

A = Excellent.

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

C = Fair -- Moderate Effect, not recommended swelling may occur.

D = Severe Effect, not recommended for ANY use.

NA = Information Not Available.

*Explanation of Footnote

1. Satisfactory to 120°F (48° C)

All data are based on ambient or room temperature conditions, about 64° F (18° C) to 73° F (23° C).



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal, POM	Acrylic (PMMA)	Aluminum	Brass	Bronze	Buna N (Nitrile)	Cast Iron	Copper	CPVC	EPDM	Hastelloy® - C	Hytrel® (TPE)	Kel-F® (PCTFE)	HDPE	LDPE	Natural Rubber	Neoprene (CR)	Noryl® (PPO)	Nylon (PA)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar®)	Silicone (VMQ)	Titanium	Tygon	Viton® (FKM)
Acetaldehyde	A	A	D	A	C	B	A	A	D	C	C	D	A	A	B	A	C	C	C	C	NA	A	C	A	A	D	D	A	A	D	D
Acetamide	B	A	A	A	B	A	D	D	A	D	NA	A	A	A	NA	A	A	A	D	B	NA	A	D	A	A	D	C	B	NA	D	B
Acetate Solvents	A	A	NA	A	D	A	A	C	C	D	A	C	A	A	NA	A	A	A	C	D	D	A	NA	B	A	D	A	C	A	D	D
Acetic Acid	D	B	D	D	C	B	D	C	C	D	B	C	A	A	A	A	A	B	C	A	D	B	B	A	D	C	C	A	D	B	
Acetic Acid, 20%	B	A	C	C	C	B	D	C	B	D	B	A	A	A	A	A	A	B	A	A	D	A	A	A	D	A	B	A	D	B	
Acetic Acid, 80%	D	B	D	D	D	B	D	C	C	D	B	C	A	A	A	A	D	C	C	A	D	B	A	A	C	C	B	A	D	B	
Acetic Acid, Glacial	C	A	D	D	D	B	D	C	C	D	B	B	B	A	A	A	D	C	D	A	B	B	A	A	D	A	B	A	D	D	
Acetic Anhydride	B	A	C	D	D	A	D	C	D	D	B	D	B	A	C	A	C	D	C	A	D	A	D	B	A	D	B	C	A	D	D
Acetone	A	A	D	A	D	A	A	A	D	A	A	D	A	A	B	A	D	B	C	C	D	A	D	A	A	D	D	D	A	D	D
Acetylene	A	A	NA	A	A	A	B	C	B	A	D	C	A	NA	A	A	B	D	B	B	NA	A	D	A	A	A	A	B	NA	A	A
Acrylonitrile	A	A	D	NA	B	B	A	A	D	A	A	A	D	B	NA	NA	A	A	B	C	NA	A	D	A	A	B	A	D	NA	NA	D
Alcohols: Amyl	A	A	A	A	C	B	A	A	B	B	A	A	A	A	A	A	A	B ¹	B	A	C	A	B	B	A	A	A	D	B	D	A
Alcohols: Benzyl	B	B	D	A	D	B	B	A	D	B	B	A	B	A	NA	A	B	D	D	C	D	B	D	A	A	D	A	NA	A	D	A
Alcohols: Butyl	A	A	D	A	C	B	A	A	A	NA	B	A	A	B	B	A	B	B ¹	A	A	A	B	B	A	A	C	A	B	B	B	A
Alcohols: Ethyl	A	A	B	A	C	B	A	A	C	B	A	B	A	A	D	A	A	B	A	A	A	A	B ¹	A	A	C	A	B	A	C	A
Alcohols: Isobutyl	A	A	B	A	C	B	B	A	B	C	NA	NA	A	A	NA	A	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A
Alcohols: Isopropyl	B	B	D	A	A	B	B	A	B	A	B	C	A	A	A	A	A	A ¹	A	B	A	D	A ¹	A ¹	A	A	A	A	B	A	A
Alcohols: Methyl	A	A	D	A	C	A	A	A	A	A	B	A	A	A	B	A	A	A	A	A	A	B	B	A ¹	A	A	A	A	B	A	C
Alcohols: Propyl (1-Propanol)	A	A	B	A	B	A	A	A	A	A	A	A	A	A	NA	A	B	A ¹	A	A	A	D	A	A	A	A	A ¹	A	A	A	A

Key to General Chemical Resistance – All data is based on ambient or room temperature conditions, about 64°F (18°C) to 73°F (23°C)

A = Excellent

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	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal, POM	Acrylic (PMMA)	Aluminum	Brass	Bronze	Buna N (Nitrile)	Cast Iron	Copper	CPVC	EPDM	Hastelloy® - C	Hytrel® (TPE)	Kel-F® (PCTFE)	HDPE	LDPE	Natural Rubber	Neoprene (CR)	Noryl® (PPO)	Nylon (PA)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar®)	Silicone (VMQ)	Titanium	Tygon	Viton® (FKM)
Aluminum Fluoride	D	D	A	C	C	B	D	D	A	D	D	A	A	B	NA	NA	A	A ¹	B	A	A	A	NA	A	A	A	A	B	A	A	A
Aluminum Hydroxide	A	C	B	A	A	B	B	C	A	A	D	A	A	B	NA	A	A	A ¹	D	A	A	A	B	A	A	A	A	NA	B	A	A
Aluminum Nitrate	A	A	A ¹	B	B	D	D	NA	A	NA	D	A	A	NA	NA	A	A	A ¹	A	A	NA	A	A	A ¹	A	B	A	B	A	B	A
Aluminum Sulfate, 10%	B	B ¹	A	B	B	B	B	B	A	D	A	A	A	B	B	A	A	A ¹	A	A	A	A ¹	A	A	A	A	A	A	A	A	A
Alums	NA	A	A ¹	C	B	A	D	NA	A	D	C	A	A	B	D	A	A	A	A	B	NA	A	NA	A	A	NA	NA	A	A	NA	A
Amines	A	A	NA	D	D	B	B	D	D	D	NA	D	B	B	A	A	B	C	B	B	D	D	D	B ¹	A	D	NA	B	B	D	D
Ammonia, 10% (Ammonium Hydroxide)	A	A	B	C	A	A	D	D	A	A	D	A	A	A	C	A	A	C	D	A	A	A	D	A ¹	A	B	A	A	C	B	D
Ammonia Nitrate	A	A	A ¹	C	A	C	A	D	C	A	D	B	A	B	B	NA	A	A	NA	C	A	D	NA	A	A	B	A ¹	NA	NA	B	D
Ammonia, anhydrous	A	A ¹	D	D	A	A	D	D	B	A	D	A	A	B	D	A	A	B	D	A	B	A	D	A	A	A	A	C	C	A	D
Ammonia, liquid	B	A ¹	D	D	A	A	D	D	C	A	D	A	A	B	NA	A	A	C	D	A	NA	B	D	A ¹	A	A	A	NA	C	A	D
Ammonium Acetate	B	A	NA	C	A	A	D	D	B	A	NA	A	A	NA	D	NA	A	A	NA	A	NA	A	A	A	A	A	A	NA	NA	A	A
Ammonium Bifluoride	D	B	A	D	NA	B	D	D	B	D	B	A	A	B	NA	NA	A	A ¹	NA	D	A	NA	NA	A	A	A	A	NA	NA	A	A
Ammonium Carbonate	B	B	A	D	D	B	D	D	B	B	D	A	A	B	NA	NA	B	B ¹	A	A	A	A	C	A	A	A	C	A	A	A	A
Ammonium Chloride, 10%	C	B ¹	A	B	B	B	D	D	B	D	D	A	A	D	A	A	A	A ¹	A	B	A	B	A ¹	A	A	A	C	C	B	A	A
Ammonium Hydroxide (Aqueous Ammonia)	A	A	B	D	A	B	D	D	D	D	D	A	A	B	C	A	A	A	D	A	A	A	D	A ¹	A	B	A	A	C	B	D
Ammonium Nitrate, 10%	A	A	A ¹	A ¹	A	B	D	D	A	B	D	A	A	B	B	A	A	A	C	B	A	A	R	A	A	A	A	C	A	A	A
Ammonium Persulfate	A	B	A	D	D	D	D	D	A	D	D	A	B	B	NA	A	A	A ¹	A	A	A	D	A	A	A	A	D	A	A	A	A
Ammonium Phosphate, Dibasic	B	C	A ¹	B ¹	A	B	B	D	A	D	D	A	A	B	NA	A	NA	A ¹	A	A	A	C	A ¹	A	A	A	NA	A	A	A	A
Ammonium Phosphate, Monobasic	B	C	A ¹	B	A	B	A	D	A	D	D	A	A	B	B	NA	NA	A	A	A	A	B	A	A	A	A	NA	A	A	A	A

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Ammonium Phosphate, Tribasic	B	B	A ¹	B	A	B	NA	C	A	D	D	A	A	B	NA	NA	NA	C	A	A	A	B	NA	A	A	A	NA	A	A	A	A	A	
Ammonium Sulfate	B	B	A	B	B	A	D	D	A	D	D	A	A	B	B	A	A	A	A	A	A	A	A ¹	A	A	A	A	A	A	A	A	A	
Ammonium Thiosulfate	A	A	NA	B	NA	A	D	D	A	D	D	NA	A	A	A	NA	B	A	A	A	NA	NA	NA	A	A	A	B	A	A	NA	A		
Amyl Acetate	A	A	D	B	C	A	A	A	D	C	A	D	A	A	C	A	NA	C	D	D	D	B	D	B	A	D	A	D	A	D	D		
Amyl Chloride	A	A	D	A	A	A	C	A	D	A	A	C	D	A	NA	A	B	D	D	D	D	C	D	D	A	D	A	D	C	C	B		
Antifreeze	A	A	B	D	A	A	B	A	A	A	NA	A	A	A	NA	NA	NA	NA	A	C	A	D	NA	D	A	A	NA	C	NA	B	A		
Aqua Regia (80% HCl, 20% HNO ₃)	D	D	D	D	D	D	D	D	D	D	D	C	C	C	NA	A	D	B	D	D	D	D	D	B	A	C	A ¹	D	A	D	B		
Arsenic Acid	A	A	A	D	A	D	D	B	A	D	A	A	A	B	NA	NA	B	B	B	A	A	C	A	A	A	A	A	A	B	B	A		
Asphalt	B	A	NA	B ¹	NA	A	B	A	B	A	A	A	D	NA	B	A	NA	A	D	D	NA	A	D	B	A	A	A	A	D	NA	NA	A	
Barium Carbonate	B	B	A	A	A	D	B	B	A	A	A	A	A	B	NA	A	A	B	NA	NA	A	A	A	A	A	A	A	NA	A	NA	A		
Barium Sulfate	B	B	A	B ¹	A	B	B	C	A	B	B	B	A	A	D	A	B	B ¹	A	A	A	A	D	B	A	B	A	A	B	NA	A		
Barium Sulfide	B	B ¹	A	A	C	D	D	D	A	D	D	A	A	NA	NA	NA	A	B ¹	A	A	A	A	NA	B	A	A	A	A	A	NA	A		
Beer	A	A	A	A	A	A	B	A	A	D	B	A	A	A	A	A	A ¹	A	A	A	A	A	A ¹	A	A	A	A	A	B	C	A		
Benzaldehyde	B	B	B	A	C	B	A	A	D	A	B	D	A	A	B	A	B	A	D	D	B	A	D	D	A	D	A ¹	D	A	D	D		
Benzene	B	B	D	A	D	B	A	A	D	A	B	D	D	B	C	B	D	C	D	D	D	A	D	D	A	C	A ¹	D	A	C	A		
Benzene Sulfonic Acid	B	B	NA	C	NA	D	B	NA	D	D	NA	D	D	B	B	NA	A	A	A	A	A	D	D	D	A	A	A	D	B	B	A		
Benzoic Acid	B	B	D	B	A	B	D	B	D	D	NA	A	D	B	D	A	A	A	D	B	B	D	B	B	A	A	A	B	A	A	A		
Benzyl Chloride	C	B	D	A	D	D	D	D	D	D	D	A	D	C	D	NA	NA	NA	D	D	D	A ¹	NA	C	A	NA	A	D	NA	NA	A		
Borax (Sodium Borate)	A	A	A ¹	B	A	B	A	B	B	A	B	A	A	B	A	A	A	A ¹	A	A	A	A	A	A ¹	A	A	A	A	B	B	NA	A	

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Boric Acid, 10%	B	A	A ¹	A	A	D	B	B	A	D	B	A	A	A	A	A	A ¹	A	D	A	B	A	A	D	D	D	D	D	D	A	B	A	A	A	D	C	D	A	C	A	D	D	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

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*Explanation of Footnote

1. Satisfactory to 120°F (48° C)

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	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal, POM	Acrylic (PMMA)	Aluminum	Brass	Bronze	Buna N (Nitrile)	Cast Iron	Copper	CPVC	EPDM	Hastelloy® - C	Hytrel® (TPE)	Kel-F® (PCTFE)	HDPE	LDPE	Natural Rubber	Neoprene (CR)	Noryl® (PPO)	Nylon (PA)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar®)	Silicone (VMQ)	Titanium	Tygon	Viton® (FKM)
Carbonated Water (Carbonic Acid)	A	A	A	A	A	A	D	A	A	D	B	A	B	A	D	A	A	A	C	A	A	A	A	B	A	A	A	A	B	A	A
Carbonic Acid (Carbonated Water)	A	A	A	B	A	B	D	B	D	D	B	A	B	A	D	A	A	A	C	D	A	A	A	B	A	A	A	A	B	A	A
Chlorine Gas, dry 10%	A	B	D	D	A	C	D	B	B	D	A	D	A	A	D	D	B	D	D	C	B	D	A	D	A	D	A	D	D	A	A
Chlorine Dioxide, 8% aqueous solution	D	C	B	NA	C	D	D	D	D	D	D	A	D	A	D	NA	C	C	D	D	NA	D	NA	C	A	A	A	B	A	C	B
Chlorine Water (5-10 ppm)	C	C	D	D	A	D	D	B	D	NA	D	A	C	A	D	A	C	B	C	D	C	C	NA	D	A	A	B	D	A	NA	A
Chloroacetic Acid	B	A	NA	D	C	D	D	C	D	D	D	D	B	A	D	A	A	D	D	D	NA	D	D	C	A	B	A	D	A	A	D
Chlorobenzene (mono)	A	B	D	D	D	A	B	C	D	B	B	D	D	A	D	A	D	C	D	D	D	D	D	C	B	D	A	D	B	A	A
Chlorobromomethane	B	B	NA	B	NA	D	NA	NA	D	D	B	NA	B	NA	D	NA	NA	A	D	D	C	C	NA	A	A	D	NA	D	NA	NA	A
Chloroform	A	A	D	A	D	B	B	B	D	B	A	D	D	A	D	B	D	C	D	D	D	A	D	C	A	D	A	D	A	B	A
Chlorosulfonic Acid	D	B ¹	NA	D	D	C	B	D	D	D	D	D	D	A	D	A	D	D	D	D	D	D	C	D	A	D	D	D	A	C	D
Chromic Acid, 5%	B	A	B	D	C	C	D	B	D	D	D	A	A	B	D	A	A	D	B	D	A	D	B	D	A	A	A	C	A	B	A
Chromic Acid, 10%	B	B	B	D	C	D	D	D	D	D	D	A	C	A	D	A	A	D	D	D	A	D	B	D	A	A	A	C	B	C	B
Chromic Acid, 30%	B	B	B	D	D	D	D	D	D	D	D	A	B	D	D	A	A	D	D	D	D	C	D	D	A	A	A	C	A	B	A
Chromic Acid, 50%	C	B	D	D	D	D	D	D	D	D	D	D	B	B	D	A	A	D	D	D	D	D	D	D	A	D	A	C	A	B	A
Citric Acid, aqueous 10%	B	A ¹	D	B	A	C	D	D	A	D	D	B	A	A	A	A	A	D	A	A	A	A	A	A	B	A	A	A	A	NA	A
Citrus Oil or Terpene (d-Limonene)	A	A	C	B	NA	C	A	D	A	D	D	A	B	A	NA	A	C	C	D	D	A	A	C	A	A	C	A	D	A	A	A
Clorox® Bleach	A	A	B	D	C	A	D	NA	D	D	D	A	B	A	C	D	NA	NA	D	B	A	A	A	D	A	A	A	NA	NA	B	A
Coffee	A	A	NA	A	A	A	D	A	A	NA	A	A	A	NA	NA	A	NA	A	A	A	A	A	C	A	A	NA	NA	A	A	NA	A
Copper Chloride	D	D	A	A	A	NA	D	D	A	NA	D	A	A	NA	A	A	B	NA	C	A	A	D	NA	A	A	A	A	A	A	A	A

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	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal, POM	Acrylic (PMMA)	Aluminum	Brass	Bronze	Buna N (Nitrile)	Cast Iron	Copper	CPVC	EPDM	Hastelloy® - C	Hytre® (TPE)	Kel-F® (PCTFE)	HDPE	LDPE	Natural Rubber	Neoprene (CR)	Noryl® (PPO)	Nylon (PA)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar®)	Silicone (VMQ)	Titanium	Tygon	Viton® (FKM)	
Copper Sulfate, 5%	B	B	A ¹	D	A	D	D	B	A	D	B	A	A	A	A	A	A	A ¹	C	A	A	D	A	A	A	A	A	A	A	NA	A	
Cresols	A	A	D	D	D	A	C	A	D	C	A	D	D	B	D	A	D	C	D	D	D	D	D	D	A	D	A ¹	D	B	D	A	
Cyclohexane	A	A	D	A	C	A	A	B	B	B	B	D	D	B	A	A	D	B	D	D	D	A	B	D	A	D	A	D	A	D	A	
Cyclohexanone	A	A ¹	D	A	D	A	B	B	D	B	B	D	B	A	D	A	B	D	D	D	D	A	D	D	A	D	D	D	NA	D	D	
Detergents	A	A	B	A	A	B	A	B	A	NA	A	A	A	B	B	A	A	D	B	B	A	A	A	A	A	A	A	A	A	A	A	
Diacetone Alcohol	B	B	NA	A	D	A	A	B	D	A	A	D	A	A	C	B	A	A	D	D	A	A	D	A	A	D	D	D	A	B	D	
Dichlorobenzene	NA	B	D	B	D	B	NA	B	D	NA	NA	D	D	A	D	NA	D	D	D	D	NA	D	D	C	A	D	A	D	NA	NA	C	
Dichloroethane	B	B	D	A	D	B	B	D	D	NA	A	D	NA	A	NA	A	C	C	D	D	A	A	D	D	A	D	A	NA	B	D	C	
Diesel Fuel	A	A	NA	A	B	A	A	A	A	A	A	A	D	B	B	A	D	C	D	B	D	A	A ¹	A	A	A	A	A	D	B	NA	A
Diethyl Ether	B	B ¹	D	A	D	B	B	A	D	NA	A	D	D	B	C	C	D	NA	D	D	NA	A	D	A	A	D	A	D	A	NA	D	
Diethylamine	A	A	D	B	B	B	A	A	C	B	A	D	B	A	NA	A	D	D	A	A	NA	A	D	A	D	D	D	B	A	C	A	
Dimethylformamide (N,N-Dimethylformamide)	A	B	D	C	D	B	C	B	C	B	A	D	B	A	B	A	A	A	C	D	D	A	D	A	A	D	D	C	A	D	D	
Dyes	A	A	NA	C	D	B	A	NA	D	NA	A	NA	A	NA	D	NA	NA	NA	C	C	A	A	D	NA	A	B	NA	NA	NA	C	A	
Ethane	A	A	NA	A	NA	A	NA	NA	A	A	A	A	D	A	NA	NA	NA	NA	D	B	NA	D	NA	D	A	A	A	D	NA	A	A	
Ethanol (Ethyl Alcohol)	A	A	B	A	D	B	A	A	C	B	A	B	A	A	D	A	A	B	A	A	A	A	C	A	A	C	A	B	A	C	A	
Ethanolamine	A	A	NA	D	C	B	NA	B	B	B	D	NA	B	B	NA	D	NA	NA	B	B	A	A	NA	D	A	D	C	B	B	NA	D	
Ether	A	A	D	A	D	B	B	A	D	C	A	D	C	B	NA	B	D	D	D	D	D	A	D	D	A	D	B	D	A	C	C	
Ethyl Acetate	B	B	D	A	D	A	B	A	D	A	A	D	B	A	B	A	A	A	C	D	A	A ¹	D	A	A	D	D	B	A	D	D	
Ethyl Benzoate	A	A	D	A	D	A	NA	NA	D	A	A	D	A	A	C	NA	B	C ¹	D	D	A	D	D	B	A	D	D	D	NA	D	A	

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Ethyl Chloride	A	A	D	A	D	B	A	A	A	C	B	D	A	B	C	B	C	C	B	C	D	A	D	D	A	D	A	D	A	D	A
Ethyl Ether	B	B	D	A	D	B	B	A	D	C	A	D	D	B	NA	A	D	D	D	D	D	A	NA	D	A	D	A ¹	D	A	NA	D
Ethylene Glycol	B	B	A	B	A	A	B	A	A	A	A	A	A	B	A	A	A	A ¹	A	A	A	A	B	A	A	A	A	A	A	B	A
Ethylene Oxide Gas (EtO), dry 3%	B	B	D	D	A	D	C	D	D	D	D	C	C	A	A	A	B	A	D	D	A	A	C	D	A	D	A	D	NA	NA	D
Fatty Acids	B	A	A	A	A	A	C	A	B	C	D	A	D	A	B	A	A	D	C	C	A	A	B	A	A	A	A	C	B	B	A
Ferric Chloride, 10%	D	D	A	D	A	D	D	D	A	D	D	A	A	B	C	A	D	A	A	B	A	A	A ¹	A	A	A	A	B	A	B	A
Ferric Nitrate	B	B	A	D	A	D	D	C	A	D	D	A	A	B	D	A	B	A ¹	A	A	A	A	A	A	A	A	A	C	A	NA	A
Ferric Sulfate	B	A	A	D	B	D	C	A	D	D	A	A	A	A	A	A	A ¹	A	A	A	A	A	A	A	A	A	A	B	A	B	A
Ferrous Sulfate	B	B	A	D	A	B	B	A	D	B	A	A	A	B	A	A	B	A ¹	B	A	A	D	A	A	A	A	A	NA	A	B	B
Fluosilicic Acid, 20%	C	B	D	B	B	D	NA	B	A	B	B	A	A	B	NA	A	B	B ¹	A	B	B	D	NA	A	A	A	A	D	D	A	A
Fluosilicic Acid, 100%	D	D	D	A	C	D	NA	B	B	D	D	NA	A	B	NA	B	C	B	A	B	B	D	NA	A	A	B	A	D	D	D	A
Formaldehyde, 40%	A	A	A	A ¹	B	B	A	A	B	B	B	A	A	B	C	A	A	D	B	B	A	A	A	A	A	A	A	NA	B	NA	A
Formaldehyde, 100%	C	A	B	A	D	A	NA	B	C	C	A	A	A	D	A	A	B	C	C	C	A	D	A ¹	C	A	A	A	B	A	B	D
Formic Acid (Methanoic Acid), 10%	B	A	D	A ¹	B	A	D	C	C	D	C	A	A	A	B	A	A	D	C	A	A	D	A	A	A	A	A	B	C	B	C
Fruit Juices	A	A	B	D	A	A	D	NA	A	D	A	A	A	A	B	A	A	A	D	A	B	A	A	B	A	A	A	NA	A	B	A
Fuel Oils	A	A	D	A	B	C	B	A	A	A	A	NA	D	A	B	A	C	B	D	B	B	A	B	A	B	A	B	D	A	A	A
Furfural (Ant Oil) C ₅ H ₄ O ₂	A	B	D	A	D	A	A	B	D	B	A	D	D	B	B	D	A	D	D	D	D	B	D	D	A	D	B ¹	D	A	D	D
Galllic Acid, 5%	A	B	NA	NA	A	D	C	B	B	D	D	C	B	B	D	A	A	A	B	A	A	A	A	B	B	A	D	B	A	A	A
Gasoline (high aromatic)	A	A	D	B	D	NA	A	A	A	NA	C	D	A	A	A	B	A	A	D	A	B	A	A	A	B	A	A	D	B	A	A

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Gasoline, leaded, ref.	A	A	D	A	D	A	A	A	A	A	B	D	D	A	A	A	B	NA	D	B	B	A	A	B	A	B	A	D	A	C	A
Gasoline, unleaded	A	A ¹	D	A	D	A	A	A	A	A	B	C	D	A	NA	A	B	NA	D	B	D	A ¹	A ¹	C	A	C	A	D	A	C	A
Glucose	A	A	B	A	A	A	NA	NA	A	A	A	A	A	A	NA	A	A ¹	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glue, PVA (Polyvinyl Acetate)	A	A ¹	NA	A	D	A	NA	A	A	A	B	A	A	A	A	NA	A	A	A	A	NA	A	NA	NA	A	C	A	A	A	C	B
Glycerin	A	A	C	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A ¹	A	A	A	A	A	A	A	A
Glycolic Acid	A	A	B	A	C	NA	NA	NA	A	NA	NA	A	A	A	NA	B	B	A	D	A	NA	NA	NA	A	A	B	B	A	A	A	A
Grease	NA	A	NA	D	A	NA	A	A	A	A	A	NA	D	A	A	NA	NA	NA	D	D	NA	NA	A	NA	A	A	A	D	NA	A	A
Heptane	A	A	D	A	C	A	A	A	A	A	A	D	A	A	B	A	B	B	D	B	B	A	B	C ¹	A	C	A	D	A	B	A
Hexane	A	A	D	A	C	A	A	A	A	A	A	B	D	A	A	A	C	D	D	B	B	B	D	B	A	B	A	D	A	D	A
Honey	A	A	NA	A	A	A	NA	A	A	A	NA	NA	A	A	NA	NA	NA	B	A	A	NA	A	A	A	A	A	A	A	NA	A	A
Hydraulic Oil (Petro)	A	A	NA	B	D	A	A	A	A	A	A	NA	D	A	D	NA	A	C	D	A	NA	A	NA	D	A	A	A	B	NA	A	A
Hydraulic Oil (Synthetic)	A	A	NA	B	D	A	A	A	D	A	A	NA	A	A	A	NA	A	A	D	A	NA	A	NA	D	A	A	A	B	NA	A	A
Hydrazine (Diamine) H ₂ NNH ₂	A	A	NA	B	C	NA	D	NA	B	D	A	D	A	NA	C	NA	D	NA	C	B	NA	NA	D	C	A	NA	A	B	NA	NA	A
Hydrobromic Acid, 20%	D	D	NA	C	D	D	D	NA	D	D	D	A	A	A	NA	A	D	B	A	D	B	D	NA	A	NA	B	A	D	A	B	A
Hydrobromic Acid, 100%	D	D	B	D	D	D	NA	D	D	D	A	A	C	NA	A	D	B	A	D	B	D	NA	C	A	A	A	D	A	B	A	A
Hydrochloric Acid, 20%	D	D	A	C	C	D	D	D	D	D	A	A	A	B	A	A	A ¹	A	C	A	D	B	B ¹	A	A	A	D	D	A	A	A
Hydrochloric Acid, 37%	D	D	A	C	C	D	D	B	D	D	A	C	B	C	A	A	B	A	B	A	D	D	C	A	B	A	B	D	A	A	A
Hydrochloric Acid, 100%	D	D	A	C	D	D	D	D	D	D	A	D	A	D	A	D	NA	D	D	A	D	D	B	A	D	A	D	D	A	A	A
Hydrochloric Acid, dry gas	D	D	NA	NA	NA	D	A	NA	NA	NA	D	A	NA	A	NA	A	D	A	NA	NA	A	A	NA	B	A	A	A	NA	C	NA	NA

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Hydrofluoric Acid, 20%	D	D	C	D	C	D	D	B	D	D	B	C	D	B	D	B	A	A	B	B	C	C	D	A ¹	A	B	A	D	D	C	A
Hydrofluoric Acid, 50%	D	D	C	D	C	D	D	B	D	D	B	C	D	B	D	B	A	A	B	D	D	D	D	A	A	B	A	D	D	C	B
Hydrofluoric Acid, 75%	D	D	C	D	D	D	D	B	D	D	B	C	C	B	D	B	B	C	D	D	D	D	C	A	C	A	D	D	C	B	
Hydrofluoric Acid, 100%	B	B	D	D	D	D	D	B	D	D	B	C	D	B	D	A	D	NA	D	D	D	D	C	A	C	A	D	D	D	B	
Hydrogen Gas	A	A	A ¹	NA	NA	A	A	A	A	A	A	A	A	A	A	B	A	A ¹	B	A	A	A ¹	A ¹	A	A	A	A	C	A	A	
Hydrogen Peroxide, 10%	B	B	A	D	C	A	D	B	D	C	D	A	A	A	D	A	A	A	B	D	A	C	A	A	A	A	A	A	A	B	A
Hydrogen Peroxide, 30%	B	B	NA	D	C	A	D	B	D	B	D	A	B	A	D	B	A	C ¹	C	D	A	D	A ¹	B	A	A	A	B	B	B	A
Hydrogen Peroxide, 50%	B	A ¹	NA	D	D	A	D	B	D	NA	D	A	B	A	D	A	A	C ¹	C	D	NA	D	A ¹	B	A	A	A	B	A	B	A
Hydrogen Peroxide, 100%	B	A ¹	A	D	D	A	D	B	D	B	D	A	D	A	D	B	A	C ¹	C	D	A	D	A	B	A	A	A	B	B	B	A
Hydrogen Sulfide, aqueous	C	A	B	C	A	B	D	A	D	D	D	A	B	A	A	A	A	A	C	A	A	C	A	A	A	B	A	C	B	A	D
Hydrogen Sulfide, dry	C	A	NA	A	A	B	D	B	D	D	D	A	B	A	A	B	A	A	C	A	NA	C	NA	A	A	A	A	C	A	D	D
Ketones	A	A	A	D	D	B	NA	A	D	A	A	NA	D	A	D	B	D	C	A	D	D	A ¹	D	C	A	D	C	NA	A	D	D
Lacquer Thinners	A	A	A	D	D	A	A	A	D	C	A	NA	D	A	D	NA	D	A	D	D	D	A	B	D	A	D	NA	D	C	D	D
Lacquers	A	A	A	D	NA	A	D	A	D	C	A	A	D	A	D	A	D	A	D	D	D	A	D	D	A	D	D	D	A	A	D
Lactic Acid	B	B	D	B	A	B	D	B	A	D	B	A	A	B	D	A	A	A	A	A	A	B	B	B	A	B	B	A	A	A	A
Latex	A	A ¹	B	B	NA	A	A	A	A	A	NA	NA	A	A	NA	NA	NA	NA	NA	B	NA	A	NA	A ¹	A	NA	A	A	NA	A	A
Ligroin	A ¹	A ¹	NA	B	NA	D	NA	NA	A	A	NA	NA	D	NA	NA	NA	A	D	B	NA	D	A	A ¹	A	NA	A	D	NA	A	A	
Lime (CaO)	A	A	A ¹	B	A	A	NA	NA	A	A	NA	NA	D	NA	C	A	A	A	NA	A	NA	A	D	D	A	B	A	NA	A	A	A
Linoleic Acid	B	A	A	B	NA	A	D	C	B	D	D	A	D	A	NA	NA	B	A	D	D	NA	NA	NA	B	A	A	A ¹	B	NA	A	B

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Lithium Hydroxide	C	C	NA	NA	NA	D	D	B	C	B	NA	NA	A	B	NA	NA	D	NA	A	D	NA	NA	D	A	A	NA	NA	NA	NA	NA	A
Lubricants	A	A ¹	NA	A	A	A	A	A	A	A	A	NA	D	A	A	NA	B	D	D	D	C	A	A	A	A	B	A	D	A	B	A
Lye (KOH, Potassium Hydroxide)	B	A	A	A	B	D	D	D	B	B	B	A	A	B	D	B	B	A	B	B	A	C	D	A	A	B	A	C	D	B	B
Lye (NaOH, Sodium Hydroxide)	B	B	C	C	A	D	D	D	A	D	B	A	B	C	B	B	D	A	B	A	A	D	A	A	A	D	A	D	A	B	B
Magnesium Bisulfate	A	A	NA	NA	NA	D	NA	A	B	NA	NA	NA	NA	NA	NA	NA	A	NA	B	B	NA	A	A	A ¹	A	A	NA	NA	NA	A	NA
Magnesium Chloride, 10%	D	D	B	B	A	D	D	B	A	D	A	A	A	A	C	A	A	A	A	A	A	A	A ¹	A ¹	A	B	A	A	A	A	A
Magnesium Hydroxide, 10%	B	A	B	A	A	C	D	B	A	A	B	A	A	A	C	A	B	A ¹	A	A	A	B	A	A	A	A	A	A	A	C	A
Malic Acid (Apple Acid) C ₄ H ₅ O ₅	A	A ¹	NA	A	NA	B	B	B	A	D	D	A	D	B	NA	NA	NA	B ¹	B	D	NA	A	D	A	A	A	A	B	A	A	A
Mercury	A	A	B	A	A	D	D	A	A	A	D	A	A	A	B	A	A	A	A	A	A	A	D	B	A	A	A	NA	A	D	A
Methane Gas	A	A	A	A	A	A	A	A	A	NA	A	NA	D	A	B	NA	A	NA	D	B	NA	A	A	A	A	B	A	D	NA	NA	A
Methanol (Methyl Alcohol)	A	A	D	A	C	A	A	A	A	A	B	A	A	A	B	A	A	A	A	A	A	B	B	A ¹	A	A	A	A	B	A	C
Methyl Acetate	A	B	D	B	D	A	NA	A	D	A	B	NA	B	A	C	A	C	B	D	B	NA	A	D	D	A	D	B	D	NA	A	D
Methyl Acetone (mixture)	A	A	NA	D	NA	A	A	A	D	A	NA	NA	A	A	NA	NA	NA	NA	A	D	NA	A	NA	D	A	D	D	NA	NA	A	D
Methyl Alcohol, 10%	A	A	D	A	C	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	B	B	A ¹	A	A	A	A	B	A	C
Methyl Butyl Ketone	A	A	NA	D	D	A	NA	D	D	NA	NA	NA	A	NA	NA	NA	NA	NA	D	D	NA	D	D	D	A	A	D	D	NA	NA	D
Methyl Cellosolve	B	B	A	D	A	B	A	A	A	C	B	D	B	NA	NA	NA	NA	NA	D	B	NA	C	D	B	A	D	A	D	NA	C	D
Methyl Chloride	A	A	D	B	D	D	A	B	D	D	NA	D	D	B	D	A	NA	C	D	D	D	B	D	D	A	D	A	D	A	D	A
Methyl Ethyl Ketone (MEK, Butanone)	A	A	D	C	D	B	A	A	D	A	A	D	A	A	B	A	D	B	D	D	D	A	D	B ¹	A	D	D	D	A	D	D
Methyl Ethyl Ketone Peroxide (MEKP)	NA	A	D	D	NA	D	D	D	D	D	D	D	D	NA	NA	NA	NA	NA	D	D	NA	NA	NA	NA	A	NA	NA	B	NA	NA	D

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Methyl Isobutyl Ketone	B	B	D	D	D	B	NA	A	D	C	B	D	B	A	B	A	D	C	D	D	D	B ¹	D	A	A	D	D	D	A	NA	D
Methyl Isopropyl Ketone	A	A	NA	A	D	A	NA	A	D	C	A	NA	C	A	D	NA	D	D	D	D	D	A	D	NA	A	D	A	C	NA	NA	D
Methylamine	A	A	D	D	D	A	D	A	B	A	NA	NA	A	B	NA	A	NA	A	B	A	NA	NA	D	A ¹	A	D	C	NA	NA	D	D
Methylene Chloride	B	B	D	B	D	C	A	B	D	B	B	D	C	B	D	A	D	D	B	D	D	C	D	B	A	D	B	D	B	D	B
Milk	A	A	B	A	A	A	D	A	A	D	D	A	A	A	B	A	B	A	A	A	A	A	A	B	A	A	A ¹	A	A	B	A
Mineral Spirits	A	A	D	A	B	A	A	A	A	B	NA	A	D	B	NA	A	D	B	D	C	A	A	C	B	A	A	NA	D	B	B	A
Monochloroacetic Acid	A	A	NA	D	D	D	B	B	D	D	D	NA	C	A	D	B	D	NA	NA	A	NA	D	D	NA	A	NA	B	NA	A	NA	C
Monoethanol Amine	A	A	NA	D	NA	B	NA	A	D	A	D	NA	B	NA	D	NA	NA	C	B	D	A	A	NA	B	A	D	C	B	B	NA	D
Morpholine	NA	A	C	NA	D	A	NA	B	D	B	NA	NA	D	A	NA	NA	B	NA	A	D	D	A	D	B ¹	A	NA	B	NA	NA	NA	NA
Motor Oil	A	A ¹	C	B	B	A	A	A	A	NA	A	A	D	NA	B	A	A	C	D	B	A	A ¹	A	A	A	B	B	NA	A	A	NA
Mustard	A	A	B	C	NA	B	NA	A	B	D	NA	A	A	A	B	NA	A	A	B	A	A	A	A	A	A	B	A	NA	A	B	D
Naphtha	A	A	D	A	D	A	A	A	A	B	A	A	D	B	B	A	D	A	D	D	D	A	B	B	B	A	A	D	B	C	A
Natural Gas	A	A	B	B	A	A	A	A	A	A	NA	D	NA	B	NA	A	A	C	A	NA	NA	D	A	A	A	A	NA	A	NA	A	A
Nitric Acid, 5-10%	A	A	B	D	A	A	D	A	D	D	D	A	A	A	C	A	A	B	D	B	A	D	A	A	A	A	A	A	C	A	D
Nitric Acid, 20%	A	A	B	D	A	D	D	A	D	D	D	A	A	A	D	A	B	C	D	D	B	D	B	A ¹	A	A	A	D	A	D	A
Nitric Acid, 50%	A	A	C	D	C	D	D	A	D	D	D	B	D	A	D	A	D	B	D	D	B	D	B	B	A	B	A	D	A	D	A
Nitric Acid (Concentrated)	A	A	D	D	D	D	D	A	D	D	D	D	D	B	D	A	D	C	D	D	B	D	C	D	A	B	A	D	A	D	A
Nitrobenzene	B	B	D	C	D	B	C	A	D	C	B	D	B	D	D	A	D	C	D	D	D	B	D	B	A	D	A	D	A	D	B
Nitromethane	A	A	D	A	D	A	NA	NA	D	NA	A	NA	B	A	C	A	D	A	B	D	D	B	D	B ¹	A	B	A ¹	D	NA	B	D

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	304 Stainless Steel		316 Stainless Steel		ABS Plastic		Acetal, POM		Acrylic (PMMA)		Aluminum		Brass		Bronze		Buna N (Nitrile)		Cast Iron		Copper		CPVC		EPDM		Hastelloy® - C		Hytrel® (TPE)		Kel-F® (PCTFE)		HDPE		LDPE		Natural Rubber		Neoprene (CR)		Noryl® (PPO)		Nylon (PA)		Polycarbonate (PC)		Polypropylene (PP)		PTFE		PVC		PVDF (Kynar®)		Silicone (VMQ)		Titanium		Tygon		Viton® (FKM)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Nitrous Acid	B	B	D	NA	C	D	D	B	D	D	C	A	A	D	NA	B	D	NA	C	D	NA	NA	NA	C	D	A	A	D	D	A	A	A	B	NA	NA	A	B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</

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Pentane (Amyl Hydride) C ₅ H ₁₂	C	C	A	B	NA	B	A	C	A	NA	A	NA	D	A	B	NA	NA	D	D	B	NA	A	A	D	A	A	A	D	NA	A	A
Peracetic Acid (Peroxyacetic Acid)	B	A	B	D	D	C	D	D	C	D	D	D	B	A	NA	NA	A	D	D	D	NA	D	A	A	A	C	A	C	NA	D	A
Perchloric Acid	C	C	NA	C	C	D	NA	B	D	NA	D	A	B	B	D	B	D	B	D	A	NA	D	D	C	A	C	A	D	D	D	A
Peroxyacetic Acid (Peracetic Acid)	B	A	B	D	D	C	D	D	C	D	D	D	B	A	NA	NA	A	D	D	D	NA	D	A	A	A	C	A	C	NA	D	A
Petroleum	A	A	B	B	NA	D	NA	A	A	NA	B	A	D	NA	B	NA	D	C	D	B	D	A	C	B	A	NA	A	D	A	NA	A
Phenol, 10%	B	B	D	B	D	A	NA	B	D	D	B	A	B	B	D	B	D	B	A	D	D	D	B	B	A	C	A	D	B	C	A
Phenol (Carbolic Acid)	B	B	D	D	D	A	D	B	D	D	D	B	B	A	D	B	D	D	D	D	D	D	D	B	A	D	A	D	A	B	A
Phosphoric Acid, >40%	D	D	C	D	C	C	D	B	D	D	D	A	B	A	D	A	A	B	B	B	A	B	A	A ¹	A	B	B	D	C	D	A
Phosphoric Acid, crude	D	B	C	D	D	C	D	B	D	D	D	NA	B	A	NA	A	B	B	D	D	A	B	A	B	A	B	A	D	C	D	A
Phosphoric Acid, S40%	D	C	B	D	D	C	D	B	D	D	D	A	B	A	NA	A	A	A	B	B	A	B	A	A	A	B	B	C	C	D	A
Phosphorus	A	A	NA	B	D	B	NA	A	NA	NA	B	B	NA	A	NA	NA	D	B	NA	NA	NA	NA	D	A	A	A	A	NA	NA	B	NA
Photographic Developer	A	A	B	D	B	NA	NA	A	A	D	D	A	B	B	D	NA	A	A	A	A	A	NA	A	A	A	A	NA	B	A	NA	A
Photographic Solutions	D	NA	NA	D	B	NA	NA	A	B	NA	D	A	A	B	B	A	A	A	B	B	A	A	A	A	A	B	A	A	A	B	
Potassium Bicarbonate	B	B	A	C	A	D	NA	B	A	A	B	A	A	B	NA	A	B	A	A	A	A	A	NA	A	A	A	B	A	A	A	A
Potassium Bromide	B	B	A	A	A	C	NA	B	A	D	B	A	A	B	NA	A	B	A	A	A	A	A	A	A	A	A	A	A	A	B	A
Potassium Chloride, up to 30%	B	A	A	A	A	D	D	B	A	A	B	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium Dichromate	B	B	B	A	B	B	D	B	A	A	B	A	A	B	C	A	B	A	B	A	A	B	A	A	A	A	A	A	A	C	A
Potassium Ferrocyanide	B	B	A ¹	B	C	B	NA	B	D	C	B	B	A	B	NA	A	B	A ¹	A	A	A	B	D	A ¹	A	A	A ¹	NA	A	B	A
Potassium Hydroxide (Caustic Potash)	B	A	A	A	B	D	D	D	B	B	B	A	A	B	D	B	A	A	B	B	A	C	D	A	A	A	A	C	D	B	B

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Potassium Iodide	A	A	B	NA	A	B	NA	A	A	A	A	A	A	A	NA	NA	B	B	B	A	NA	A	A	A ¹	A	A	A ¹	NA	A	B	A	
Potassium Nitrate, 10%	B	B	B	A	A	B	B	B	A	A	A	A	A	B	B	NA	B	A	A	A	A	B	A	A	A	A	A	A	A	A	A	
Potassium Nitrite	B	B	B	A	NA	B	B	B	A	A	A	A	A	B	NA	NA	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	
Potassium Permanganate	B	B	B	A	B	B	C	A	C	A	A	A	A	A	D	NA	A	A	A	A	A	D	A ¹	A	A	A	A	NA	A	B	A	
Propane (liquefied)	A	A	A	A	NA	A	A	A	A	A	A	A	D	A	A	A	D	C	D	C	A	A	C	A	A	A	A	D	NA	NA	A	
Propylene (C3H6, Propene, Methyl Ethylene)	B	A	B	A	B	A	NA	NA	D	A	A	NA	D	A	NA	NA	NA	NA	D	D	NA	NA	A	A	A	B	A	D	NA	B	A	
Propylene Glycol	B	B	B	B	B	B	B	A	A	A	C	A	B	NA	NA	A	B ¹	A	C	NA	A	B	A ¹	A	C	A	A	A	NA	A		
Pyridine (C5H5N)	A	A	A	B	D	B	B	B	D	A	B	D	B	B	C	A	D	B	D	D	B	C	D	A ¹	A	D	D	D	B	D	D	
Resorcinol (C6H6O2)	NA	NA	A	NA	C	NA	NA	NA	NA	NA	NA	B	NA	D	NA	A	B ¹	NA	D	NA	D	B	A ¹	A	C	NA	NA	NA	C	A		
Rosins	A	A	NA	B	NA	B	C	B	A	D	B	C	A	A	NA	A	B	B	NA	A	NA	A	NA	A ¹	A	C	NA	A	NA	NA	A	
Salicylic Acid	B	B ¹	A	D	B	B	C	A	B	A	A	NA	A	A	NA	A	A	B ¹	A	D	NA	A	A	A	A	B	A	NA	A	B	A	
Salt Brine (NaCl saturated)	B	A	A ¹	A	A	B	A	B	A	D	B	A	A	A	A	NA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	NA	A
Sea Water	C	C	A ¹	A	A	B	D	A	A	D	B	A	A	A	D	A	A	A ¹	A	B	A	A ¹	A	A	A	A	A	A	A	NA	A	
Shellac (Bleached)	A	A	NA	A	NA	A	B	A	A	A	A	NA	A	NA	NA	NA	A	A	B	NA	A	NA	A	A	A	NA	NA	NA	NA	NA	A	
Shellac (Orange)	A	A	NA	A	NA	A	B	A	A	A	A	NA	A	NA	NA	NA	NA	A	D	D	NA	A	NA	A	A	NA	NA	NA	NA	NA	A	
Silicone	A	A	D	A	NA	A	A	A	A	A	A	A	A	A	A	A	A	NA	C	A	A	A	A ¹	A	A	A	A	C	NA	NA	A	
Silver Bromide	D	D	NA	C	A	D	NA	D	NA	D	NA	NA	NA	B	NA	A	NA	A	NA	NA	A	NA	NA	A	NA	NA	NA	NA	NA	NA		
Silver Nitrate	B	B	B	A	A	D	D	B	B	C	D	A	A	A	D	A	A	A	A	A	A	A	A ¹	A	A	A	A	A	A	B	A	
Soap Solutions	A	A	A	A	A	C	B	B	A	A	A	A	A	A	A	NA	B	D	B	B	A	A	A	A	A	A	A	A	A	B	A	

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Sodium Acetate	B	B	B	B	B	B	B	B	B	B	A	A	A	A	NA	A	A	A	A	B	A	B	A	A	A	B	A	D	A	NA	D	
Sodium Benzoate	NA	NA	A	NA	A	A	NA	A	B	NA	NA	A	A	A	NA	NA	B	A ¹	A	A	NA	B	A ¹	A ¹	A	B	A ¹	NA	A	B	A	
Sodium Bicarbonate (Baking Soda)	A	A	A	A	A	D	D	A	A	C	B	A	A	B	A	A	A ¹	A	A	A	A	A	A ¹	A	A	A	A	A	A	B	A	
Sodium Bisulfate, 10%	D	C	A	B	A	D	D	A ¹	B	D	B	A ¹	A	B	C	A ¹	B	A ¹	A	A	A	A	A	A	A	A ¹	A	A	A	B	A	
Sodium Bisulfite	B	B	A	C	A	D	D	B	A	D	B	A ¹	A	B	B	NA	B	A ¹	A	A	A	C	A	A	A	A ¹	A	A	A	B	A	
Sodium Bromide	C	C	B	A	A	D	NA	A	NA	C	D	A ¹	A	B	NA	A	A	A ¹	A	A	A ¹	B	A	A	A	B ¹	A ¹	NA	A	B ¹	A	
Sodium Carbonate	A	A	B	A	B	D	B	A ¹	A	B	A	A ¹	A	A	B	A	A	B ¹	A	A	A	B	A ¹	A	A	A ¹	A	A	A	B	A	
Sodium Chlorate	A	B	A	A	A	C	B	B	B	B	B	A	A	B	NA	NA	B	B ¹	A	A	A	D	A	A	A	A	A	C	A	B	A	
Sodium Chloride	B	B	A	A	A	C	D	B	A	D	B	A ¹	A	A	A	A	A	A ¹	A	A	A	A	A ¹	A	A	A ¹	A	A	A	B	A	
Sodium Hydroxide, 80%	C	B	A	D	A	D	D	C	D	D	D	A	B	A	D	A	C	D	A	B	A	C	D	A	A	A	A	A	D	A	D	
Sodium Hypochlorite, <20%	C	C	B	D	A	D	D	C	B	D	D	A	B	A	A	A	A	A	C	C	A	D	C	A	A	A	A	B	C	C	A	
Sodium Hypochlorite, 100%	D	D	D	D	NA	D	D	C	D	D	D	C	B	B	D	A	C	B ¹	C	C	A	D	D	B	A	B	A	B	C	NA	A	
Sodium Hydrosulfite (Sodium Dithionite)	NA	NA	NA	NA	A	A	NA	NA	C	NA	NA	C	B	A	NA	NA	NA	NA	C	B	NA	A	NA	NA	A	C	NA	C	NA	A	B	
Sodium Nitrate	B	B	A ¹	A	A	B	B	B	A	B	D	A	A	B	B	A	B	A ¹	B	B	A	A	D	A	A	A	A	A	D	A	B	A
Sodium Perborate	B	B	A	B	A	C	D	B	B	C	B	A	A	B	B	A	A	A	B	B	A	B	A	A	A	A	NA	B	NA	NA	A	
Sodium Peroxide	A	A	A ¹	D	C	C	D	A	B	C	B	A	A	B	B	A	B	A	B	B	NA	A	A	B	A	B	A	D	NA	NA	A	
Sodium Polyphosphate	B	B	NA	B	NA	D	D	B	A	D	A	A	A	A	NA	A	B	A	C	B	A	A	NA	A	A	A	A	D	A	NA	A	
Sodium Silicate (Water Glass)	A	B	A ¹	C	A	A	D	B	A	B	B	A	A	B	A	A	A	A ¹	A	A	A	A	A	A	A	A	A	A	A	B	A	
Sodium Sulfate (Salt Cake, Thenardite)	B	B	A ¹	B	A	A	B	B	A	B	B	A	A	B	A	A	A	A ¹	B	A	A	A	A ¹	A	A	A	A	A	A	NA	A	

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Sodium Sulfide	B	D	A ¹	B	A	D	D	B	A	C	D	A	A	B	A	A	B	A	A	B	A	B	A	A	A	B	A	B	A	A	A	B	A	D	A	A	A	A	D	A	A ¹	A	A	A	A	A	A	A	B	A												
Sodium Sulfite	B	A	A ¹	A	A	C	D	B	A	A	D	A	A	B	A	A	B	A	NA	A	A	A	B	B	B	A	B	B	A	A	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A											
Sodium Thiosulfate (hypo)	A	B	A ¹	C	B	A	D	A	B	C	D	A	A	A	NA	A	A	A	B	A	A	B	A	B	A	B	A	B	D	A ¹	A	A	A	A	A	A	A	A	A	A	A	A	A	A	NA	NA	NA	A	A													
Starch	A	A	A ¹	A	A	A	A	A	B	A	C	NA	A	A	NA	B	A	A	B	A	A	B	A	A	B	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	NA	NA	NA	A	A													
Stearic Acid	B	A	A ¹	A	A	B	D	B	B	C	D	B	B	B	C	C	NA	A	B	C	NA	A	B	C	B	C	B	A	A	A ¹	A	A	A	A	A	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A												
Stoddard's Solvent	A	A	B	A	A	A	A	A	A	A	A	C	D	A	A	A	NA	C ¹	D	C	D	A	A	A ¹	C	A	C	A	C	A	D	A	C	A	D	A	C	A	D	A	C	A	D	A	C	A	A	C	A	A												
Styrene (Vinylbenzene) C ₆ H ₅ CHCH ₂	A	A	NA	A	D	A	A	A	D	A	B	D	D	D	D	NA	NA	NA	D	D	A	A	D	NA	D	D	A	A	D	NA	A	D	A	D	A	D	A	D	NA	NA	NA	B																				
Sulfite Liquors	B	B	NA	D	NA	D	D	B	A	C	D	B	A	B	NA	NA	A	A ¹	B	B	NA	B	NA	A	A	B	A	C	B	A	A	A	B	A	B	A	A	A	A	A	A	A	A	A	B	NA	NA	A	A													
Sulfur Dioxide	D	A	D	B	D	B	D	B	D	NA	B	A	A	C	C	A	D	B	NA	B	A	C	B	A	C	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	A	B	NA	NA	A	A													
Sulfur Dioxide Gas, dry	D	A	A	B	B	B	D	B	D	A	A	A	A	B	C	C	A	A	A	C	D	A	C	D	A	B	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	A	C	A	A	A														
Sulfur Dioxide Gas, wet	A	C	A	B	D	A	D	C	D	B	D	A	C	B	X	NA	D	A	C	D	D	D	D	A	C	A	A	D	A	C	A	A	A	A	A	A	A	A	A	B	NA	A	A	A	A	A	A															
Sulfur Trioxide, dry	D	A	NA	D	NA	A	A	B	D	A	B	A	C	B	X	NA	A	C	C	D	D	A	NA	D	A	A	NA	D	A	A	A	C	B	D	A	C	B	D	B	A																						
Sulfuric Acid, <10%	D	B	B	D	A	D	D	B	A	C	D	A	A	B	A	A	A	A	A	B	A	A	A	B	A	C	A	A	A ¹	A	A	A	A	A	A	A	A	A	A	A	C	D	B	B	A	A	A	A														
Sulfuric Acid, 10-75%	D	D	B	D	D	D	D	B	B	D	D	A	B	B	X	A	A	A	C	B	A	D	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	D	NA	A	A	A	A	A	A															
Sulfuric Acid, 75-100%	C	D	A	D	D	D	D	B	C	D	D	C	B	B	C	A	B	B	D	D	A	D	D	C	A	D	D	C	A	D	A	D	A	C	A	A	A	A	D	D	D	D	D	D	D	A	A	A	A													
Sulfuric Acid, cold concentrated	C	B	D	D	D	B	D	B	D	D	D	D	C	A	B	A	B	C	D	D	A	D	NA	A ¹	A	D	A	D	A	D	A	A	A	A	B	B	A	D	D	D	D	B																				
Sulfurous Acid, 10%	B	B	NA	C	A	B	D	B	B	D	D	A	B	B	C	A	B	B ¹	B	C	A	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	B	A	B	A	A	A	A	A	A														
Tannic Acid, 10%	B	A	A	B	A	C	B	B	A	C	A	A	A	B	A	A	A	B ¹	A	A	A	C	C	A	A	A	A	A	A	A	A	A	B	B	A	B	A	B	A	B	A	B	A	B	A	B	A	A	A													
Tetrachloroethane	B	A	D	A	D	C	C	NA	D	A	A	C	D	A	NA	A	D	NA	D	D	D	C	D	C	A	C	A	D	A	A	A	A	D	A	D	A	D	A	D	A	NA	NA	A	A	A	A	A	A	A	A												

Key to General Chemical Resistance – All data is based on ambient or room temperature conditions, about 64°F (18°C) to 73°F (23°C)

A = Excellent

B = Good - Minor Effect, slight corrosion or discoloration

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*Explanation of Footnote

1. Satisfactory to 120°F (48° C)

All data are based on ambient or room temperature conditions, about 64° F (18° C) to 73° F (23° C).



	304 Stainless Steel	316 Stainless Steel	ABS Plastic	Acetal, POM	Acrylic (PMMA)	Aluminum	Brass	Bronze	Buna N (Nitrile)	Cast Iron	Copper	CPVC	EPDM	Hastelloy® - C	Hytrel® (TPE)	Kel-F® (PCTFE)	HDPE	LDPE	Natural Rubber	Neoprene (CR)	Noryl® (PPO)	Nylon (PA)	Polycarbonate (PC)	Polypropylene (PP)	PTFE	PVC	PVDF (Kynar®)	Silicone (VMQ)	Titanium	Tygon	Viton® (FKM)
Toluene (Toluol)	A	A	D	C	D	A	A	A	D	A	A	D	D	A	B	B	D	C	D	D	D	A	D	C	A	D	A	D	A	D	C
Tributyl Phosphate (TBP)	A	A	D	B	NA	A	A	B	D	A	B	D	B	A	C	NA	B	B	D	D	NA	B	C	B	A	D	A	D	A	NA	D
Trichloroacetic Acid	D	C	NA	NA	C	D	NA	NA	C	D	D	NA	B	B	D	A	C	A	C	D	NA	C	D	A	A	B	B	D	D	C	C
Trichloroethylene	B	B	D	D	D	D	NA	B	D	C	A	D	D	A	C	A	D	D	D	D	D	C	D	C	A	D	B	D	A	NA	A
Triethylamine	A	A	NA	D	A	NA	NA	C	C	A	A	A	A	NA	NA	A	NA	NA	B	A	B	A	D	D	A	B	A ¹	NA	NA	A	D
Trisodium Phosphate	B	B	B	A	B	D	A	A	A	NA	B	A	A	A	A	NA	A	A	A	A	A	A	A	A	A	A	A	A	NA	A	A
Turpentine (C0H16)	A	A	D	A ¹	B	A	D	A	A	NA	B	A	D	B	B	A	B	D	D	D	D	B	D	D	A	D	A	D	B	B	A
Urea	B	B	B	A	A	B	NA	B	B	NA	D	A	A	B	B	NA	A	A	NA	B	A	A	D	A	A	D	A	B	A	B	A
Varnish	A	A	NA	A	NA	A	A	B	B	C	B	D	D	A	NA	A	B	A	D	D	D	A	D	A	A	D	A	D	NA	D	A
Vegetable Juice	A	A	B	A	NA	D	A	A	A	D	A	NA	A	NA	NA	NA	NA	NA	NA	NA	A	A	A	NA	A	NA	NA	B	NA	A	A
Vinegar	A	A	A	B	A	D	D	A	B	D	B	A	A	A	C	A	A	A	B	B	A	A	A ¹	A	A	B	B	A	A	A	A
Water, Deionized	A	A ¹	A ¹	NA	A	A	A	NA	A	D	B	A	A	A	NA	A	A	NA	A	A	A	A	NA	A ¹	A	A	A ¹	NA	A	A	A
Water, Distilled	A	A	B	B	A	A	A	A	A	D	B	A	A	A	NA	A	A	A ¹	A	A	A	A	A ¹	A	A	A	A	C	A	B	A
Water, Fresh	A	A	A	A ¹	A	B	B	A	A	D	B	A	A	A	A	A	A	A ¹	A	A	A	A	A ¹	A	A	B	A	B	A	B	A
Water, Salt	B	B	A ¹	A	A	B	D	A	A	D	B	A	A	A	A	A	A ¹	A	A	A	A	A ¹	A ¹	A	A	B	A	B	A	B	A
Weed Killers	A	A	NA	A	NA	D	NA	NA	B	NA	NA	NA	NA	NA	B	NA	NA	NA	NA	C	NA	A	NA	C	NA	NA	NA	A	NA	NA	A
Whiskey and Wines	A	A	C	A	A	C	B	A	A	D	B	A	A	NA	B	A	B	C	A	C	A	A	A	A	A	A	A	A	A	C	A
Xylene (Xylol, Dimethylbenzene)	B	B	D	A	D	A	A	A	D	B	A	D	D	A	B	A	D	B	D	D	B	A ¹	D	B	A	D	A	D	A	D	B
Zinc Chloride, 10%	B	B	A	C	B	D	D	B	A	D	C	A	A	B	A	A	A	A	A	A	A	A	A	A	A	B	A	B	A	A	A

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Zinc Sulfate, 10%	B	A	A	C	B	D	B	B	A	D	B	A	A	A	D	A	A	A ¹	B	A	A	A	A ¹	A	A	A	A	A	A	A	A

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