

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.

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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	Hyrel® (TPE)	Ke-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	N/A	A	C	A	A	D	D	A	A	D	D
Acetamide	B	A	A	A	B	A	D	D	A	D	N/A	A	A	A	N/A	A	A	A	D	B	N/A	A	D	A	A	D	C	B	N/A	D	B
Acetate Solvents	A	A	N/A	A	D	A	A	C	C	D	A	C	A	A	N/A	A	A	A	C	D	D	A	N/A	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	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	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	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	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	N/A	A	A	A	B	C	B	A	D	C	A	N/A	A	A	B	D	B	B	N/A	A	D	A	A	A	A	B	N/A	A	A
Acrylonitrile	A	A	D	N/A	B	B	A	A	D	A	A	A	D	B	N/A	N/A	A	A	B	C	N/A	A	D	A	A	B	A	D	N/A	N/A	D
Alcohols: Amyl	A	A	A	A	C	B	A	A	B	B	A	A	A	A	A	A	B ¹	B	A	C	A	B	B	A	A	A	A	D	B	D	A
Alcohols: Benzyl	B	B	D	A	D	B	B	A	D	B	B	A	B	A	N/A	A	B	D	D	C	D	B	D	A	A	D	A	N/A	A	D	A
Alcohols: Butyl	A	A	D	A	C	B	A	A	A	N/A	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	N/A	N/A	A	A	N/A	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	N/A	A	B	A ¹	A	A	A	D	A	A	A	A	A	A	A	A	A
Aluminum Fluoride	D	D	A	C	C	B	D	D	A	D	D	A	A	B	N/A	N/A	A	A ¹	B	A	A	A	N/A	A	A	A	A	B	A	A	A
Aluminum Hydroxide	A	C	B	A	A	B	B	C	A	A	D	A	A	B	N/A	A	A	A ¹	D	A	A	A	B	A	A	A	A	N/A	B	A	A
Aluminum Nitrate	A	A	A ¹	B	B	D	D	N/A	A	N/A	D	A	A	N/A	N/A	A	A	A ¹	A	A	N/A	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	N/A	A	A ¹	C	B	A	D	N/A	A	D	C	A	A	B	D	A	A	A	A	B	N/A	A	N/A	A	A	N/A	N/A	A	A	N/A	A

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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	Hyrel® (TPE)	Ke-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)	
Amines	A	A	N/A	D	D	B	B	D	D	D	N/A	D	B	B	A	A	B	C	D	B	D	D	D	B ¹	A	D	N/A	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	N/A	A	A	N/A	C	A	D	N/A	A	A	B	A ¹	N/A	N/A	B	D	
Ammonia, anhydrous	A	A ¹	D	D	A	A	D	D	B	A	D	A	A	B	D	A	A	B ¹	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	N/A	A	A	C	D	A	N/A	B	D	A ¹	A	A	A	N/A	C	A	D	
Ammonium Acetate	B	A	N/A	C	A	A	D	D	B	A	N/A	A	A	N/A	D	N/A	A	A	N/A	A	N/A	A	A	A	A	A	A	N/A	N/A	A	A	
Ammonium Bifluoride	D	B	A	D	N/A	B	D	D	B	D	B	A	A	B	N/A	N/A	A	A ¹	N/A	D	A	N/A	N/A	A	A	A	A	N/A	N/A	A	A	
Ammonium Carbonate	B	B	A	D	D	B	D	D	B	B	D	A	A	B	N/A	N/A	B	B ¹	A	A	A	A	C	A	A	A	A	C	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	A	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	N/A	A	A	A ¹	A	A	A	D	A	A	A	A	A	D	A	A	A	
Ammonium Phosphate, Dibasic	B	C	A ¹	B ¹	A	B	B	D	A	D	D	A	A	B	N/A	A	N/A	A ¹	A	A	A	C	A ¹	A	A	A	A	A	A	A	A	
Ammonium Phosphate, Monobasic	B	C	A ¹	B	A	B	A	D	A	D	D	A	A	B	B	N/A	N/A	A	A	A	B	A	A	A	A	A	N/A	A	A	A	A	
Ammonium Phosphate, Tribasic	B	B	A ¹	B	A	B	N/A	C	A	D	D	A	A	B	N/A	N/A	N/A	C	A	A	A	B	N/A	A	A	A	N/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	
Ammonium Thiosulfate	N/A	A	N/A	B	N/A	N/A	D	D	A	D	D	N/A	A	N/A	N/A	N/A	A	N/A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	N/A
Amyl Acetate	A	A	D	B	C	A	A	A	D	C	A	D	A	A	C	A	N/A	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	N/A	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	N/A	A	A	A	N/A	N/A	N/A	N/A	A	C	A	D	N/A	D	A	A	N/A	C	N/A	B	A	
Aqua Regia (80% HCl, 20% HNO ₃)	D	D	D	D	D	D	D	D	D	D	D	C	C	C	N/A	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	N/A	N/A	B	B	B	A	A	C	A	A	A	A	A	A	B	B	A	
Asphalt	B	A	N/A	B ¹	N/A	A	B	A	B	A	A	A	D	N/A	B	A	N/A	A	D	D	N/A	A	D	B	A	A	A	D	N/A	N/A	A	
Barium Carbonate	B	B	A	A	A	D	B	B	A	A	A	A	A	B	N/A	A	A	B	N/A	N/A	A	A	A	A	A	A	A	N/A	A	N/A	A	

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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	N/A	A	
Barium Sulfide	B	B ¹	A	A	C	D	D	D	A	D	D	A	A	N/A	N/A	N/A	A	B ¹	A	A	A	A	N/A	B	A	A	A	A	A	N/A	A	
Beer	A	A	A	A	A	A	B	A	A	D	B	A	A	A	A	A	A	A ¹	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	N/A	C	N/A	D	B	N/A	D	D	N/A	D	D	B	B	N/A	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	N/A	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	N/A	N/A	N/A	D	D	D	A ¹	N/A	C	A	N/A	A	D	N/A	N/A	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	N/A	A
Boric Acid, 10%	B	A	A ¹	A	A	D	B	B	A	D	B	A	A	A	A	A	A	A ¹	A	D	A	B	A	A	A	A	A	A	A	A	A	
Bromine Gas	D	D	D	D	D	D	D	D	D	N/A	D	D	D	A	D	A	D	D	D	D	A	D	C	D	A	C	A	D	D	B	A	
Butadiene	A	A	N/A	A	B	A	A	C	D	N/A	C	A	C	C	D	A	D	D	D	B	D	C	D	C	A	C	A	D	N/A	N/A	B	
Butane Gas	A	A ¹	B	A	A	A	A	C	A	N/A	C	C	D	A	A	A	B	C	D	A	D	A ¹	D	A	A	C	A	D	A	C	A	
Butanol (Butyl Alcohol)	A	A	D	A	D	B	A	A	A	N/A	B	A	A	B	B	A	B	B ¹	A	A	A	B	B	A	A	C	A	B	B	B	A	
Butyl Amine	A	A	N/A	C	D	A	N/A	B	C	N/A	N/A	N/A	B	B	D	D	N/A	C	D	D	D	A ¹	D	B	A	D	A	B	B	D	D	
Butyl Ether	B	A	N/A	D	D	A	N/A	N/A	B	N/A	N/A	D	D	B	N/A	A	N/A	N/A	D	D	D	A ¹	N/A	D	A	A	A	D	N/A	A	D	
Butyric Acid, 20%	B	B ¹	D	A	C	B	A	D	D	D	C	D	B	A	B	A	D	D	D	D	D	C	D	B	A	B	A	D	A	D	B	
Calcium Carbonate (Chalk) CaCO ₃	A	B	N/A	A	A	D	D	A	A	N/A	A	A	A	B	N/A	N/A	B	B	A	A	A	A	C ¹	A	A	A	A	A	B	N/A	A	
Calcium Chloride, 10%	C	B	B	D	B	D	B	A	A	C	B	A	A	A	A	A	B	A	A	A	A	A	A	A	C	A	A	A	N/A	A		
Calcium Hydroxide (Lye), 10%	B	B	A ¹	D	A	C	D	D	A	A	D	A	A	A	B	A	A	A ¹	A	A	A	A ¹	D	A ¹	A	B	A ¹	A	A	B	A	
Calcium Hypochlorite	C	B	N/A	D	B	D	D	D	C	D	D	B	B	B	C	B	A	A	D	D	A	D	D	A	A	B	A	B	A	A	A	
Calcium Nitrate	C	B ¹	A	D	A	B	B	B	A	B	B	A	A	B	N/A	A	B	A	A	A	A	A	A ¹	A ¹	A	A	A ¹	B	B	A	A	
Calcium Oxide (Unslaked Lime) CaO	A	A	D	A	A	C	N/A	D	A	N/A	N/A	A	A	A	A	N/A	A	B	B	A	A	B	D	A	A	B	A	A	A	C	B	
Calcium Sulfate, 10%	B	B	C	D	A	C	B	A	A	A	A	A	A	B	N/A	A	A	B	B	B	A	D	A ¹	A	A	B	A	N/A	A	N/A	A	

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Carbolic Acid (Phenol)	B	B	D	D	D	A	D	B	D	D	D	B	B	A	D	B	A	D	D	D	D	D	D	B	A	D	A	D	A	B	A	B	A
Carbon Dioxide, dry	A	A	B	A	A	B	B	A	A	D	A	A	B	A	A	B	A	B	B	B	A	A	N/A	A ¹	A	A	A	A	B	A	N/A	B	
Carbon Dioxide, wet	A	A	B	A	A	A	A	A	A	D	A	A	B	A	A	B	A	B	B	A	A	A	A	A	A	A	A	B	A	N/A	B		
Carbon Monoxide Gas	A	A	A ¹	A	A	A	A	A	A	A	A	A	A	B	A	B	A ¹	D	B	A	A	A	A	A	A	A	B	A	N/A	N/A	A		
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	B	D	D	C	B	D	A	D	A	D	A	D	D	A	A	A		
Chlorine Dioxide, 8% aqueous solution	D	C	B	N/A	C	D	D	D	D	D	D	A	D	A	D	N/A	C	C	D	D	N/A	D	N/A	C	A	A	A	B	A	C	B		
Chlorine Water (5-10 ppm)	C	C	D	D	A	D	D	B	D	N/A	D	A	C	A	D	A	C	B	C	D	C	C	N/A	D	A	A	B	D	A	N/A	A		
Chloroacetic Acid	B	A	N/A	D	C	D	D	C	D	D	D	D	B	A	D	A	A	D	D	D	N/A	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	N/A	B	N/A	D	N/A	N/A	D	D	B	N/A	B	N/A	D	N/A	N/A	A	D	D	C	C	N/A	A	A	D	N/A	D	N/A	N/A	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	N/A	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	D	C	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	A	B	A	A	A	N/A	A		
Citrus Oil or Terpene (d-Limonene)	A	A	C	B	N/A	C	A	D	A	D	D	A	B	A	N/A	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	N/A	D	D	D	A	B	A	C	D	N/A	N/A	D	B	A	A	A	D	A	A	A	N/A	N/A	B	A		
Coffee	A	A	N/A	A	A	A	D	A	A	N/A	A	A	A	A	N/A	N/A	A	N/A	A	A	A	A	C	A	A	N/A	N/A	A	A	N/A	A		
Copper Chloride	D	D	A	A	A	N/A	D	D	A	N/A	D	A	A	N/A	A	A	B	N/A	C	A	A	D	N/A	A	A	A	A	A	D	A	A		
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	N/A	A		

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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	Hyrel® (TPE)	Ke-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)		
Cresols	A	A	D	D	D	A	C	A	D	C	A	D	D	B	A	A	D	B	D	D	D	D	A	B	D	A	D	A	D	A	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	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	D	N/A	D	D	
Detergents	A	A	B	A	A	B	A	B	A	N/A	A	A	A	B	B	A	A	D	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Diacetone Alcohol	B	B	N/A	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	D	A	B	D	
Dichlorobenzene	N/A	B	D	B	D	B	N/A	B	D	N/A	N/A	D	D	A	D	N/A	D	D	D	D	N/A	D	D	C	A	D	A	D	N/A	N/A	C		
Dichloroethane	B	B	D	A	D	B	B	D	D	N/A	A	D	N/A	A	N/A	A	C	C	D	D	A	A	D	D	A	D	A	N/A	B	D	C		
Diesel Fuel	A	A	N/A	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	N/A	A	
Diethyl Ether	B	B ¹	D	A	D	B	B	A	D	N/A	A	D	D	B	C	C	D	N/A	D	D	N/A	A	D	A	A	D	A	D	A	N/A	D		
Diethylamine	A	A	D	B	B	B	A	A	C	B	A	D	B	A	N/A	A	D	D	A	A	N/A	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	N/A	C	D	B	A	N/A	D	N/A	A	N/A	A	N/A	D	N/A	N/A	N/A	C	C	A	A	D	N/A	A	B	N/A	N/A	N/A	C	A		
Ethane	A	A	N/A	A	N/A	A	N/A	N/A	A	A	A	A	D	A	N/A	N/A	N/A	N/A	D	B	N/A	D	N/A	D	A	A	A	D	N/A	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	N/A	D	C	B	N/A	B	B	B	D	N/A	B	B	N/A	D	N/A	N/A	B	B	A	A	N/A	D	A	D	C	B	B	N/A	D		
Ether	A	A	D	A	D	B	B	A	D	C	A	D	C	B	N/A	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	N/A	N/A	D	A	A	D	A	A	C	N/A	B	C ¹	D	D	A	D	D	B	A	D	D	D	N/A	D	A		
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	N/A	A	D	D	D	D	D	A	N/A	D	A	D	A ¹	D	A	N/A	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	A	B	A	
Ethylene Oxide Gas (ETG), dry 3%	B	B	D	D	A	D	D	C	D	D	D	C	C	A	A	A	B	A	D	D	A	A	C	D	A	D	A	D	N/A	N/A	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		

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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	Hyrel® (TPE)	Ke-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)	
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	N/A	A	
Ferric Sulfate	B	A	A	D	B	D	D	C	A	D	D	A	A	A	A	A	A	A ¹	A	A	A	A	A	A	A	A	A	B	A	B	A	
Ferrous Sulfate	B	B	A	D	A	B	B	B	A	D	B	A	A	B	A	A	B	A ¹	B	A	A	D	A	A	A	A	A	N/A	A	B	B	
Fluosilicic Acid, 20%	C	B	D	B	B	D	N/A	B	A	B	B	A	A	B	N/A	A	B	B ¹	A	B	B	D	N/A	A	A	A	A	D	D	A	A	
Fluosilicic Acid, 100%	D	D	D	A	C	D	N/A	B	B	D	D	N/A	A	B	N/A	B	C	B	A	B	B	D	N/A	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	N/A	B	N/A	A	
Formaldehyde, 100%	C	A	B	A	D	A	N/A	B	C	C	A	A	A	A	D	A	A	B	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	N/A	A	D	A	A	A	A	B	A	A	A	D	A	B	A	A	B	A	A	A	N/A	A	B	A	
Fuel Oils	A	A	D	A	B	C	B	A	A	A	A	N/A	D	A	B	A	C	B	D	B	B	A	B	A	B	A	B	D	A	A	A	
Furfural (Ant Oil) C ₈ 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	
Gallic Acid, 5%	A	B	N/A	N/A	A	D	C	B	B	D	D	C	B	B	D	A	A	A	A	B	A	A	A	A	B	B	A	D	B	A	A	
Gasoline (high-aromatic)	A	A	D	B	D	D	N/A	A	A	A	N/A	C	D	A	A	A	B	A	D	A	B	A	A	A	B	A	A	D	B	A	A	
Gasoline, leaded, ref.	A	A	D	A	D	A	A	A	A	A	B	D	D	A	A	A	B	N/A	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	N/A	A	B	N/A	D	B	D	A ¹	A ¹	C	A	C	A	D	A	C	A	
Glucose	A	A	B	A	A	A	A	N/A	A	A	A	A	A	A	A	N/A	A	A ¹	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glue, PVA (Polyvinyl Acetate)	A	A ¹	N/A	A	D	A	N/A	A	A	A	B	A	A	A	A	N/A	A	A	A	A	N/A	A	N/A	N/A	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	A
Glycolic Acid	A	A	B	A	C	N/A	N/A	N/A	A	N/A	N/A	A	A	A	N/A	B	B	A	D	A	N/A	N/A	N/A	A	A	B	B	A	A	A	A	
Grease	N/A	A	N/A	D	A	N/A	A	A	A	A	A	N/A	D	A	A	N/A	N/A	N/A	D	D	N/A	N/A	A	N/A	A	A	A	D	N/A	A	A	
Heptane	A	A	D	A	C	A	A	A	A	A	A	A	D	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	N/A	A	A	A	N/A	A	A	A	N/A	N/A	A	A	N/A	N/A	N/A	B	A	A	N/A	A	A	A	A	A	A	A	N/A	A	A	A
Hydraulic Oil (Petro)	A	A	N/A	B	D	A	A	A	A	A	A	N/A	D	A	D	N/A	A	C	D	A	N/A	A	N/A	D	A	A	A	B	N/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	Hyrel® (TPE)	Ke-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)	
Hydraulic Oil (Synthetic)	A	A	N/A	B	D	A	A	A	D	A	A	N/A	A	A	N/A	A	A	A	D	A	N/A	A	N/A	D	A	A	A	B	N/A	A	A	
Hydrazine (Diamine) H ₂ NNH ₂	A	A	N/A	B	C	N/A	D	N/A	B	D	A	D	A	N/A	C	N/A	D	N/A	C	B	N/A	N/A	D	C	A	N/A	A	B	N/A	N/A	A	
Hydrobromic Acid, 20%	D	D	N/A	C	D	D	D	N/A	D	D	D	A	A	A	N/A	A	D	B	A	D	B	D	N/A	A	N/A	B	A	D	A	B	A	
Hydrobromic Acid, 100%	D	D	B	D	D	D	D	N/A	D	D	D	A	A	C	N/A	A	D	B	A	D	B	D	N/A	C	A	A	A	D	A	B	A	
Hydrochloric Acid, 20%	D	D	A	C	C	D	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	
Hydrochloric Acid, 37%	D	D	A	C	C	D	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	
Hydrochloric Acid, 100%	D	D	A	C	D	D	D	D	D	D	D	A	D	A	D	A	D	N/A	D	D	A	D	D	B	A	D	A	D	D	A	A	
Hydrochloric Acid, dry gas	D	D	N/A	N/A	N/A	D	D	A	N/A	N/A	D	A	N/A	A	N/A	A	D	A	N/A	N/A	A	A	N/A	B	A	A	A	A	N/A	C	N/A	N/A
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	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	N/A	D	D	D	D	D	C	A	C	A	D	D	D	B	
Hydrogen Gas	A	A	A ¹	N/A	N/A	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	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	N/A	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	N/A	D	D	A	D	B	D	N/A	D	A	B	A	D	A	A	C ¹	C	D	N/A	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	N/A	A	A	B	D	B	D	D	D	A	B	A	A	B	A	A	C	A	N/A	C	N/A	A	A	A	A	C	A	D	D	
Isopropyl Alcohol (IPA, isopropanol)	B	B	D	A	A	B	B	A	B	A	B	C	A	A	A	A	A ¹	A	B	A	D	A ¹	A ¹	A	A	A	A	A	B	A	A	
Ketones	A	A	A	D	D	B	N/A	A	D	A	A	N/A	D	A	D	B	D	C	A	D	D	A ¹	D	C	A	D	C	N/A	A	D	D	
Lacquer Thinners	A	A	A	D	D	A	A	A	D	C	A	N/A	D	A	D	N/A	D	A	D	D	D	A	B	D	A	D	N/A	D	C	D	D	
Lacquers	A	A	A	D	N/A	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	

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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	Hyrel® (TPE)	Ke-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)	
Latex	A	A ¹	B	B	N/A	A	A	A	A	A	N/A	N/A	A	A	N/A	N/A	N/A	N/A	N/A	B	N/A	A	N/A	A ¹	A	N/A	A	A	N/A	A	A	
Ligroin	A ¹	A ¹	N/A	B	N/A	D	N/A	N/A	A	A	N/A	N/A	D	N/A	N/A	N/A	A	D	B	N/A	D	A	A	A ¹	A	N/A	A	D	N/A	A	A	
Lime (CaO)	A	A	A ¹	B	A	A	N/A	N/A	A	A	N/A	N/A	D	N/A	C	A	A	A	N/A	A	N/A	A	D	D	A	B	A	N/A	A	A	A	
Linoleic Acid	B	A	A	B	N/A	A	D	C	B	D	D	A	D	A	N/A	N/A	B	A	D	D	N/A	N/A	N/A	B	A	A	A ¹	B	N/A	A	B	
Lithium Hydroxide	C	C	N/A	N/A	N/A	D	D	B	C	B	N/A	N/A	A	B	N/A	N/A	D	N/A	A	D	N/A	N/A	D	A	A	N/A	N/A	N/A	N/A	N/A	A	
Lubricants	A	A ¹	N/A	A	A	A	A	A	A	A	A	N/A	D	A	A	N/A	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	C	B	B	D	A	B	A	A	D	A	A	A	D	A	B	B	B	
Magnesium Bisulfate	A	A	N/A	N/A	N/A	D	N/A	A	B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	B	B	N/A	A	A	A ¹	A	A	N/A	N/A	N/A	A	N/A	
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	A	C	A
Malic Acid (Apple Acid) C ₄ H ₆ O ₅	A	A ¹	N/A	A	N/A	B	B	B	A	D	D	A	D	B	N/A	N/A	N/A	B ¹	B	D	N/A	A	D	A	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	N/A	A	D	A	
Methane Gas	A	A	A	A	A	A	A	A	A	N/A	A	N/A	D	A	B	N/A	A	N/A	D	B	N/A	A	A	A	A	B	A	D	N/A	N/A	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	N/A	A	D	A	B	N/A	B	A	C	A	C	B	D	B	N/A	A	D	D	A	D	B	D	N/A	A	D	
Methyl Acetone (mixture)	A	A	N/A	D	N/A	A	A	A	D	A	N/A	N/A	A	A	N/A	N/A	N/A	N/A	A	D	N/A	A	N/A	D	A	D	D	N/A	N/A	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	N/A	D	D	A	N/A	D	D	N/A	N/A	N/A	A	N/A	N/A	N/A	N/A	N/A	D	D	N/A	D	D	D	A	A	D	D	N/A	N/A	D	
Methyl Cellosolve	B	B	A	D	A	B	A	A	A	C	B	D	B	N/A	N/A	N/A	N/A	N/A	D	B	N/A	C	D	B	A	D	A	D	N/A	C	D	
Methyl Chloride	A	A	D	B	D	D	A	B	D	D	N/A	D	D	B	D	A	N/A	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)	N/A	A	D	D	N/A	D	D	D	D	D	D	D	D	N/A	N/A	N/A	N/A	N/A	D	D	N/A	N/A	N/A	N/A	A	N/A	N/A	B	N/A	N/A	D	
Methyl Isobutyl Ketone	B	B	D	D	D	B	N/A	A	D	C	B	D	B	A	B	A	D	C	D	D	D	B ¹	D	A	A	D	D	D	A	N/A	D	

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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.
 N/A = 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	Hyrel® (TPE)	Ke-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)	
Methyl Isopropyl Ketone	A	A	N/A	A	D	A	N/A	A	D	C	A	N/A	C	A	D	N/A	D	D	D	D	D	A	D	N/A	A	D	A	C	N/A	N/A	D	
Methylamine	A	A	D	D	D	A	D	A	B	A	N/A	N/A	A	B	N/A	A	N/A	A	B	A	N/A	N/A	D	A ¹	A	D	C	N/A	N/A	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	A ¹	A	A	B	A
Mineral Spirits	A	A	D	A	B	A	A	A	A	B	N/A	A	D	B	N/A	A	D	B	D	C	A	A	C	B	A	A	N/A	D	B	B	A	
Monochloroacetic Acid	A	A	N/A	D	D	D	B	B	D	D	D	N/A	C	A	D	B	D	N/A	N/A	A	N/A	D	D	N/A	A	N/A	B	N/A	A	N/A	C	
Monoethanol Amine	A	A	N/A	D	N/A	B	N/A	A	D	A	D	N/A	B	N/A	D	N/A	N/A	C	B	D	A	A	N/A	B	A	D	C	B	B	N/A	D	
Morpholine	N/A	A	C	N/A	D	A	N/A	B	D	B	N/A	N/A	D	A	N/A	N/A	B	N/A	A	D	D	A ¹	D	B ¹	A	N/A	B	N/A	N/A	N/A	N/A	
Motor Oil	A	A ¹	C	B	B	A	A	A	A	N/A	A	A	D	N/A	B	A	A	C	D	B	A	A ¹	A	A	A	B	B	N/A	A	A	N/A	
Mustard	A	A	B	C	N/A	B	N/A	A	B	D	N/A	A	A	A	B	N/A	A	A	B	A	A	A	A	A	A	B	A	N/A	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	A	N/A	D	N/A	B	N/A	A	A	C	A	N/A	N/A	D	A	A	A	N/A	A	N/A	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	C	A	D	A	
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	N/A	N/A	D	N/A	A	N/A	B	A	C	A	D	A	B	D	D	B	D	B ¹	A	B	A ¹	D	N/A	B	D	
Nitrous Acid	B	B	D	N/A	C	D	D	B	D	D	C	A	A	D	N/A	B	D	N/A	C	D	N/A	N/A	N/A	A	A	A	B	N/A	N/A	A	B	
Nitrous Oxide	B	B	N/A	N/A	D	B	B	D	A	B	B	N/A	A	B	N/A	N/A	N/A	C	A	A	N/A	C	D	D	A	A	D	N/A	N/A	A	B	
Oils: Citric	A	A	D	A	N/A	A	B	N/A	D	D	N/A	N/A	B	A	N/A	N/A	B	A	N/A	D	A	A	A	A	A	B	A	N/A	A	D	A	
Oils: Cod Liver	A	A	A	B	A	A	D	N/A	A	D	N/A	A	A	A	N/A	A	A	N/A	D	B	N/A	N/A	A	A	A	A	A	B	N/A	N/A	A	
Oils: Corn	A	A	B	A	A	A	B	N/A	D	A	B	N/A	C	A	A	A	A	A	D	A	A	A	N/A	A ¹	A	B	A	A	N/A	B	B	
Oils: Cottonseed	A	A	A	A	A	A	A	N/A	A	A	A	A	D	A	A	A	A	A	D	C	A	B	N/A	A	A	B	A	A	A	B	A	

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Oils: Diesel Fuel (20, 30, 40, 50)	A	A	N/A	D	B	A	A	A	A	A	A	N/A	D	B	A	A	D	A	D	B	D	A	A	B	A	B	A	D	B	A	A
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	A	A	D	D	B	C	B	A	B	A	A	N/A	D	A	A	C	B	D	D	A	A	B	B	A	A	B	C	B	A	B	
Oils: Hydraulic Oil (Petro)	A	A	N/A	B	N/A	A	A	A	A	A	A	N/A	D	A	A	N/A	A	C	D	A	N/A	A	N/A	D	A	A	A	B	N/A	A	A
Oils: Hydraulic Oil (Synthetic)	A	A	N/A	B	N/A	A	A	A	D	A	A	N/A	A	A	A	N/A	A	A	D	A	N/A	A	N/A	D	A	A	A	B	N/A	A	A
Oils: Mineral	A	A	A	A	A	A	A	A	A	N/A	B	A	D	A	A	A	B	D	B	A	A	B	A	A	B	A	C	A	B	A	
Oils: Silicone	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	N/A	A	A	D	D	A	A	A	A	A	A	A	C	N/A	A	A
Oils: Soybean	A	A	A	A	N/A	A	N/A	A	A	A	N/A	A	C	A	B	A	A	A	D	C	N/A	A	N/A	A	A	A	A	A	A	B	A
Oils: Turbine	A	A	N/A	A	N/A	A	N/A	A	B	A	A	A	A	N/A	N/A	N/A	N/A	C	D	D	N/A	A	N/A	B	A	A	A	D	A	A	A
Oleic Acid	A	A	D	A	C	A	D	B	B	N/A	A	A	B	A	A	B	C	C ¹	D	C	A	A	A	B	A	C	A	D	B	C	B
Oxalic Acid, cold 10%	B	A	A	B	A	A	D	B	D	C	B	A	A	B	D	D	A	A ¹	B	D	A	B ¹	N/A	A ¹	A	B	B	B	A	B	A
Ozone Gas	B	A	B	C	A	B	B	B	D	C	A	A	A	A	C	A	C ¹	C	D	C	N/A	D	A	B	A	B	A	A	A	B	A
Palmitic Acid	B	A	A	A	D	B	D	A	A	N/A	B	A	B	B	A	N/A	A	N/A	B	D	N/A	A	A	B	A	B	A ¹	D	N/A	B	A
Paraffin	A	A	A	A	A	A	A	A	B	N/A	B	A	D	B	N/A	A	B	B	B	B	A	A	A	A	A	B	A	N/A	A	B	B
Pentane (Amyl Hydride) C ₅ H ₁₂	C	C	A	B	N/A	B	A	C	A	N/A	A	N/A	D	A	B	N/A	N/A	D	D	B	N/A	A	A	D	A	A	A	D	N/A	A	A
Peracetic Acid (Peroxyacetic Acid)	B	A	B	D	D	C	D	D	C	D	D	D	B	A	N/A	N/A	A	D	D	D	N/A	D	A	A	A	C	A	C	N/A	D	A
Perchloric Acid	C	C	N/A	C	C	D	N/A	B	D	N/A	D	A	B	B	D	B	D	B	D	A	N/A	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	N/A	N/A	A	D	D	D	N/A	D	A	A	A	C	A	C	N/A	D	A
Petroleum	A	A	B	B	N/A	D	N/A	A	A	N/A	B	A	D	N/A	B	N/A	D	C	D	B	D	A	C	B	A	N/A	A	D	A	N/A	A
Phenol, 10%	B	B	D	B	D	A	N/A	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	N/A	B	A	N/A	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	N/A	A	A	A	B	B	A	B	A	A	A	B	B	C	C	D	A
Phosphorus	A	A	N/A	B	D	B	N/A	A	N/A	N/A	B	B	N/A	A	N/A	N/A	D	B	N/A	N/A	N/A	N/A	D	A	A	A	A	N/A	N/A	B	N/A

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Photographic Developer	A	A	B	D	B	N/A	N/A	A	A	D	D	A	B	B	D	N/A	A	A	A	A	A	N/A	A	A	A	A	N/A	B	A	N/A	A	
Photographic Solutions	D	N/A	N/A	D	B	N/A	N/A	A	B	N/A	D	A	A	B	B	A	A	A	B	B	A	A	A	A	A	A	B	A	A	A	B	
Potassium Bicarbonate	B	B	A	C	A	D	N/A	B	A	A	B	A	A	B	N/A	A	B	A	A	A	A	A	N/A	A	A	A	B	A	A	A	A	
Potassium Bromide	B	B	A	A	A	C	N/A	B	A	D	B	A	A	B	N/A	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	N/A	B	D	C	B	B	A	B	N/A	A	B	A ¹	A	A	A	B	D	A ¹	A	A	A ¹	N/A	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	
Potassium Iodide	A	A	B	N/A	A	B	N/A	A	A	A	A	A	A	A	N/A	N/A	B	B	B	A	N/A	A	A	A ¹	A	A	A ¹	N/A	A	B	A	
Potassium Nitrate, 10%	B	B	B	A	A	B	B	B	A	A	A	A	A	B	B	N/A	B	A	A	A	A	B	A	A	A	A	A	A	A	A	A	
Potassium Nitrite	B	B	B	A	N/A	B	B	B	A	A	A	A	A	B	B	N/A	N/A	A	A	A	A	B	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	N/A	A	A	A	A	A	D	A ¹	A	A	A	N/A	A	B	A		
Propane (liquefied)	A	A	A	A	N/A	A	A	A	A	A	A	A	D	A	A	A	D	C	D	C	A	A	C	A	A	A	A	D	N/A	N/A	A	
Propylene (C ₃ H ₆ , Propene, Methyl Ethylene)	B	A	B	A	B	A	N/A	N/A	D	A	A	N/A	D	A	N/A	N/A	N/A	N/A	D	D	N/A	N/A	A	A	A	B	A	D	N/A	B	A	
Propylene Glycol	B	B	B	B	B	B	B	A	A	A	A	C	A	B	N/A	N/A	A	B ¹	A	C	N/A	A	B	A ¹	A	C	A	A	A	N/A	A	
Pyridine (C ₅ H ₅ N)	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 (C ₆ H ₆ O ₂)	N/A	N/A	A	N/A	C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	B	N/A	D	N/A	A	B ¹	N/A	D	N/A	D	B	A ¹	A	C	N/A	N/A	N/A	C	A	
Rosins	A	A	N/A	B	N/A	B	C	B	A	D	B	C	A	A	N/A	A	B	B	N/A	A	N/A	A	N/A	A ¹	A	C	N/A	A	N/A	N/A	A	
Salicylic Acid	B	B ¹	A	D	B	B	C	A	B	A	A	N/A	A	A	N/A	A	A	B ¹	A	D	N/A	A	A	A	A	B	A	N/A	A	B	A	
Salt Brine (NaCl saturated)	B	A	A ¹	A	A	B	A	B	A	D	B	A	A	A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N/A	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 ¹	A	A	A	A	A	A	N/A	A	
Shellac (Bleached)	A	A	N/A	A	N/A	A	B	A	A	A	A	N/A	A	N/A	N/A	N/A	N/A	A	A	B	N/A	A	N/A	A	A	N/A	N/A	N/A	N/A	N/A	A	
Shellac (Orange)	A	A	N/A	A	N/A	A	B	A	A	A	A	N/A	A	N/A	N/A	N/A	N/A	A	D	D	N/A	A	N/A	A	A	N/A	N/A	N/A	N/A	N/A	A	
Silicone	A	A	D	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	N/A	C	A	A	A	A ¹	A	A	A	A	C	N/A	N/A	A	

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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	Hyrel® (TPE)	Ke-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)
Silver Bromide	D	D	N/A	C	A	D	N/A	D	N/A	D	N/A	N/A	N/A	B	N/A	A	N/A	A	N/A	N/A	A	N/A	N/A	N/A	A	N/A	N/A	N/A	N/A	N/A	N/A
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	A ¹	A	A	A	A	A	B	A
Soap Solutions	A	A	A	A	A	C	B	B	A	A	A	A	A	A	A	N/A	B	D	B	B	A	A	A	A	A	A	A	A	A	B	A
Sodium Acetate	B	B	B	B	B	B	B	B	B	B	A	A	A	A	N/A	A	A	A	A	B	A	B	A	A	A	B	A	D	A	N/A	D
Sodium Benzoate	N/A	N/A	A	N/A	A	A	N/A	A	B	N/A	N/A	A	A	A	N/A	N/A	B	A ¹	A	A	N/A	B	A ¹	A ¹	A	B	A ¹	N/A	A	B	A
Sodium Bicarbonate (Baking Soda)	A	A	A	A	A	D	D	A	A	C	B	A	A	B	B	A	A	A ¹	A	A	A	A	A	A ¹	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	N/A	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	N/A	A	N/A	C	D	A ¹	A	B	N/A	A	A	A ¹	A	A	A ¹	B	A	A	A	B ¹	A ¹	N/A	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	N/A	N/A	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	N/A	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	N/A	A
Sodium Hydrosulfite (Sodium Dithionite)	N/A	N/A	N/A	N/A	A	A	N/A	N/A	C	N/A	N/A	C	B	A	N/A	N/A	N/A	N/A	C	B	N/A	A	N/A	N/A	A	C	N/A	C	N/A	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	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	N/A	B	N/A	N/A	A
Sodium Peroxide	A	A	A ¹	D	C	C	D	A	B	C	B	A	A	B	B	A	B	A	B	B	N/A	A	A	B	A	B	A	D	N/A	N/A	A
Sodium Polyphosphate	B	B	N/A	B	N/A	D	D	B	A	D	A	A	A	A	N/A	A	B	A	C	B	A	A	N/A	A	A	A	A	D	A	N/A	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	N/A	A
Sodium Sulfide	B	D	A ¹	B	A	D	D	B	A	C	D	A	A	B	A	A	B	A	B	A	A	A	D	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	B	B	B	A	A	D	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	Hyrel® (TPE)	Ke-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)	
Sodium Thiosulfate (hypo)	A	B	A ¹	C	B	A	D	A	B	C	D	A	A	A	N/A	A	A	A	B	A	A	B	D	A ¹	A	A	A	A	A	A	N/A	A
Starch	A	A	A ¹	A	A	A	A	B	A	C	N/A	A	A	N/A	B	A	A	B	A	A	A	A	A	A	A	A	A	A	N/A	N/A	N/A	A
Stearic Acid	B	A	A ¹	A	A	B	D	B	B	C	D	B	B	B	C	N/A	A	B	C	B	A	A ¹	A	A ¹	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	N/A	C ¹	D	C	D	A	A ¹	C	A	C	A	D	A	C	A	
Styrene (Vinylbenzene) C ₆ H ₅ CHCH ₂	A	A	N/A	A	D	A	A	A	D	A	B	D	D	D	D	N/A	N/A	N/A	D	D	A	A	D	N/A	A	D	A	D	N/A	N/A	B	
Sulfite Liquors	B	B	N/A	D	N/A	D	D	B	A	C	D	B	A	B	N/A	N/A	A	A ¹	B	B	N/A	B	N/A	A	A	B	A	B	N/A	N/A	A	
Sulfur Dioxide	D	A	D	B	D	B	D	B	D	N/A	B	A	A	C	C	A	D	B	N/A	B	A	C	B	A	A	A	A	B	A	C	A	
Sulfur Dioxide Gas, dry	D	A	A	B	B	B	D	B	D	A	A	A	A	B	C	A	A	A	C	D	A	B	A	A	A	A	A	B	A	C	A	
Sulfur Dioxide Gas, wet	A	C	A	B	D	A	D	C	D	B	D	A	C	B	X	N/A	D	A	C	D	D	D	A	C	A	A	A	B	N/A	A	A	
Sulfur Trioxide, dry	D	A	N/A	D	N/A	A	A	B	D	A	B	A	C	B	X	N/A	A	C	C	D	D	A	N/A	D	A	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	C	A	A ¹	A	A	A	C	D	B	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	D	D	N/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	A	D	D	D	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	N/A	A ¹	A	D	A	D	D	D	B	
Sulfurous Acid, 10%	B	B	N/A	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	D	A	B	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	B	B	A	B	A	
Tetrachloroethane	B	A	D	A	D	C	C	N/A	D	A	A	C	D	A	N/A	A	D	N/A	D	D	D	C	D	C	A	C	A	D	A	N/A	A	
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	
Trichloroacetic Acid	D	C	N/A	N/A	C	D	N/A	N/A	C	D	D	N/A	B	B	D	A	C	A	C	D	N/A	C	D	A	A	B	B	D	D	C	C	
Trichloroethylene	B	B	D	D	D	D	N/A	B	D	C	A	D	D	A	C	A	D	D	D	D	D	C	D	C	A	D	B	D	A	N/A	A	
Triethylamine	A	A	N/A	D	A	N/A	N/A	C	C	A	A	A	A	N/A	N/A	A	N/A	N/A	B	A	B	A	D	D	A	B	A ¹	N/A	N/A	A	D	
Trisodium Phosphate	B	B	B	A	B	D	A	A	A	N/A	B	A	A	A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	N/A	A	A	
Turpentine (C ₁₀ H ₁₆)	A	A	D	A ¹	B	A	D	A	A	N/A	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	N/A	B	B	N/A	D	A	A	B	B	N/A	A	A	N/A	B	A	A	D	A	A	D	A	B	A	B	A	

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Varnish	A	A	N/A	A	N/A	A	A	B	B	C	B	D	D	A	N/A	A	B	A	D	D	D	A	D	A	D	A	D	N/A	D	A	
Vegetable Juice	A	A	B	A	N/A	D	A	A	A	D	A	N/A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	A	A	N/A	A	N/A	N/A	B	N/A	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	
Water, Deionized	A	A ¹	A ¹	N/A	A	A	A	N/A	A	D	B	A	A	A	N/A	A	A	N/A	A	A	A	A	N/A	A ¹	A	A	A	A ¹	N/A	A	A
Water, Distilled	A	A	B	B	A	A	A	A	A	D	B	A	A	A	N/A	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	A	B	A	B	A	A
Water, Salt	B	B	A ¹	A	A	B	D	A	A	D	B	A	A	A	A	A	A	A ¹	A	A	A	A ¹	A ¹	A	A	B	A	B	A	B	A
Weed Killers	A	A	N/A	A	N/A	D	N/A	N/A	B	N/A	N/A	N/A	N/A	N/A	B	N/A	N/A	N/A	N/A	C	N/A	A	N/A	C	N/A	N/A	N/A	A	N/A	N/A	A
Whiskey and Wines	A	A	C	A	A	C	B	A	A	D	B	A	A	N/A	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
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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