

Reagent	21°C	60°C	100°C	Reagent	21°C	60°C	100°C
A				Benzene Sulfonic Acid, 10%	S	S	S
Acetic acid (10%)	S	S		Benzoic Acid	S		
Acetic acid (50%)	S	S	0	Benzyl alcohol	S	S	
Acetic acid (100%)	S	S		Benzyl chloride	S	S	
Acetic anhydride	S	S		Bismuth carbonate	S	S	
Acetone	S	S		Bluing	S	S	S
Acetonitrile	S			Borax	S	S	S
Acetophenone	0	0	U	Boric acid	S	S	
Almond Oil	S	S		Brandy	S	S	
Aluminum ammonium sulfate	S	S		Brake fluid	S	0	
Aluminum chloride	S	S	0	Brine	S	S	S
Aluminum fluoride	S	S		Bromic acid	U	U	
Aluminum hydroxide	S	S		Bromine	U	U	
Aluminum nitrate	S	S	S	Bromine water	U	U	
Aluminum potassium sulfate	S	S		Butane	0		
Alums (all types)	S	S		Butyl acetate	U	U	
Ammonia (anhydrous)	S	S		Butyl acrylate	U	U	
Ammonia (30% aqueous)	S	S		Butyl alcohol	S	S	
Ammonium bi-fluoride	S	S		Butyl Phthalate	S	S	S
Ammonium carbonate	S	S	S	C			
Ammonium chloride	S	S	0	Calcium bisulfate	S	S	
Ammonium fluoride (25%)	S	S		Calcium carbonate	S	S	S
Ammonium hydroxide	S	S		Calcium chlorate	S	S	
Ammonium nitrate	S	S	S	Calcium chloride	S	S	0
Ammonium sulfate	S	S	S	Calcium hydroxide	S	S	S
Ammonium sulfide	S	S		Calcium hypochlorite	S	S	
Ammonium thiocyanate	S	S		Calcium nitrate	S	S	
Amyl acetate	0	U		Calcium soap grease	S	0	
Amyl alcohol	S	0	U	Calcium sulfate	S	S	
Amyl chloride	U	U		Calgonite (1%)	S	S	
Aniline	S	S	0	Camphor Oil	U	U	U
Anisole	0	0	U	Carbon dioxide (dry)	S	S	
Antimony trichloride	S	S		Carbon dioxide (wet)	S	S	
Apple Juice	S	S	S	Carbon disulfide	0	U	
Aqua regia	0	0		Carbon monoxide	S	S	
Arsenic acid	S	S		Carbon tetrachloride	U	U	
Aviation fuel	0	0		Carbonic acid	S	S	
B				Castor oil	S	S	
Barium carbonate	S	S		Caustic Soda, conc	S	S	S
Barium chloride	S	S	0	Cellosolve	S	S	
Barium hydroxide	S	S		Cetyl alcohol	S		
Barium soap grease	S	0		Chlorine (dry)	U	U	
Barium sulfate	S	S		Chlorine (wet)	0	U	
Barium sulfide	S	S	S	Chloroacetic acid	S		
Beer	S	S		Chlorobenzene	U	U	
Beet Juice	S	S	0	Chloroform	0	U	
Benzaldehyde	S	S		Chlorosulfonic acid	U	U	
Benzene	0	U	U	Chromic acid (10%)	S	S	

Legend: S = Satisfactory 0 = Some attack U = Unsatisfactory

Revision state: Februar 2018

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Chromic acid (50%)	S	S		Ferric sulfate	S	S	
Chromic acid (80%)	S			Ferrous chloride	S	S	
Cider	S	S		Ferrous nitrate	S	S	0
Citric acid	S	S		Ferrous sulfate	S	S	
Clorox	S	S	S	Fluorine	U	U	
Clove Oil	0	U	U	Fluosilicic acid	S	S	
Copper chloride	S	S		Formaldehyde	S	S	0
Copper cyanide	S	S		Formic acid (10%)	S	S	
Copper fluoride	S	S		Formic acid (100%)	S		
Copper nitrate	S	S		Freon (12, 22)	U		
Copper sulfate	S	S		Fructose	S	S	
Corn oil	S	S		Fruit juice	S	S	
Cottonseed oil	S	S		Fuel oil	0	0	
Cresol	S	S		Furfural	U	U	
Cuprous chloride	S	S					
Cyclohexane	S	0		G			
Cyclohexanol	S	0		Gasoline	0	U	
Cyclohexanone	0	U		Gelatin	S	S	
				Glucose	S	S	
D				Glycerol	S	S	S
Decalin	U	U		Glycol	S	S	0
Developers (photographic)	S	S		Glycolic acid	S	S	
Dextrin	S	S					
Dibutyl phthalate	S	S		H			
Dichloroethylene	S			Heptane	U	U	U
Diethanolamine	S	S		Hexadecyl alcohol	S	S	
Diethyl ether	0	0		Hexane	0	U	
Diglycolic acid	S	S		Hydrobromic acid (50%)	S	S	
Diisooctyl phthalate	S	S		Hydrochloric acid (20%)	S	S	0
Dimethyl phthalate	S	S		Hydrochloric acid (100%)	S	S	0
Diethyl Phthalate	U	U	U	Hydrofluoric acid (35%)	S	0	
p-Dioxane	S	0		Hydrogen chloride gas (dry)	S	S	
				Hydrogen peroxide (30%)	S	0	
E				Hydrogen peroxide (90%)	0	0	U
Ethanolamine	S	S		Hydrogen sulfide	S	S	
Ethyl acetate	S	S		Hydroiodic acid	U	U	
Ethyl alcohol	S	S	S	Hydroquinone	S	S	
Ethylamine	S	S					
Ethyl chloride	0	0		I			
Ethyl ether	0	0		Igepal	S	S	
Ethylene chloride	U	U		Iodine (dry)	S	S	
Ethylene chlorohydrin	S	S		Iodine (wet)	U		
Ethylene dichloride	S			Isooctane	U		
Ethylene glycol	S	S		Isopropyl alcohol	S	S	
Ethylene oxide	S						
				J			
F				Jet fuel (JP-4 and JP-5)	0	U	
Ferric chloride	S	S					
Ferric nitrate	S	S					

Reagent	21°C	60°C	100°C	Reagent	21°C	60°C	100°C
K				O			
Kerosene	O	U	L	Oleic acid	S	S	
Lactic acid	S	S	S	Oleum	U		
M				Olive oil	S	S	
Magnesium carbonate	S	S	S	Orange Juice	S		
Magnesium chloride	S	S	O	Oxalic acid	S	S	
Magnesium hydroxide	S	S	S	Oxygen	U	U	
Magnesium nitrate	S	S		Ozone	U	U	
Magnesium sulfate	S	S		P			
Magnesium sulfite	S	S		Palmitic Acid	S	S	S
Malic acid	S	O		Paradichlorobenzene	S	S	
Maple Syrup	S			Peanut oil	S	S	
Mayonnaise	S			Perchloroethylene	U	U	
Mercuric chloride	S	S		Phenol (10%)	S	S	O
Mercuric cyanide	S	S		Phosgene (gas)	U	U	
Mercuric nitrate	S	S		Phosgene (liquid)	U	U	
Mercurochrome	S			Phosphoric acid (30%)	S	S	O
Mercury	S	S		Phosphoric (85%)	S	S	O
Merthiolate (tincture)	S	S		Phosphorus	S		
Methane	S	S		Phthalic acid	S		
Methanol	S	S		Picric Acid	S		
Methyl cellosolve	S			Polyvinyl acetate	S		
Methyl chloride	U			Potassium bromide	S	S	S
Methylene chloride	S	O		Potassium carbonate	S	S	S
Methyl ethyl ketone	S	S		Potassium chlorate	S	S	O
Methyl isobutyl ketone	S	S		Potassium cyanide	S	S	
Methylsulfuric acid	S	S		Potassium dichromate	S	S	S
Milk	S	S		Potassium ferrocyanide	S	S	
Mineral oil	S	U		Potassium hydroxide	S	S	S
Molasses	S			Potassium nitrate	S	S	
Motor oil	S	S		Potassium permanganate	S	O	
Mustard Paste	S			Potassium sulfate	S	S	S
N				Potassium sulfide	S	S	S
Naphtha	S	S		Propanol	S	S	
Naphthalene	S	S	S	Pyridine	S		
Neat's Foot Oil	S			R			
Nickel chloride	S	S		Rice Bran Oil	S	S	
Nickel nitrate	S	S	O	Rosin, light	S		
Nickel sulfate	S	S	S	S			
Nitric acid (10%)	S	S	S	Safflower Oil	S	O	
Nitric acid, conc	O	U		Sauerkraut	S		
Nitric acid (fuming)	U			Shellac	S		
Nitric/sulfuric acid (50/50)	U			Silicone Oil	S		
Nitrobenzene	S	O		Silver cyanide	S	S	
Nitrous acid	O			Silver nitrate	S	S	S
Nutmeg Oil	U	U	U	Sodium acetate	S	S	

Reagent	21°C	60°C	100°C	Reagent	21°C	60°C	100°C
Sodium benzoate	S	S	S	U			
Sodium bicarbonate	S	S		Urea	S	S	
Sodium bisulfate	S	S		Urine	S	S	
Sodium bisulfite	S	S		V			
Sodium bromide	S	S		Vanilla	S	S	
Sodium carbonate	S	S	S	Varnish	S		
Sodium chlorate	S	S	O	Vaseline	S	O	O
Sodium chloride	S	S	O	Vinegar	S	S	
Sodium cyanide	S	S		W			
Sodium hydroxide, conc	S	S	S	Water	S	S	O
Sodium Hypochlorite, conc	S	O	U	Wheat Germ Oil	S	S	
Sodium Nitrate	S	S	S	Whiskey	S	S	S
Sodium Perborate	S			White Spirits	U	U	U
Sodium Phosphate	S	S	S	Wines	S	S	
Sodium sulfate	S	S		X			
Sodium sulfite	S	S		Xylene	O	U	
Sodium Thiosulfate	S	S		Xylol	S		
Soybean Oil	S	S		Y			
Stannic chloride	S	S		Yeast	S	S	
Stannous chloride	S	S		Z			
Starch	S	S		Zinc chloride	S	S	
Styrene	U	U	U	Zinc oxide	S	S	
Sucrose (20%)	S	S		Zinc sulfate	S	S	
Sulfamic acid	S	S					
Sulfur	O	U	U				
Sulfur Chloride	O	U	U				
Sulfuric acid (10%)	S	S	S				
Sulfuric acid (50%)	S	S					
Sulfuric acid, conc	S	O	U				
Sulfuric acid (fuming)	U	U					
T							
Tannic acid (10%)	S	S					
Tartaric Acid	S	S	S				
Tea	S	S	S				
Tetrahydrofuran	S	S	O				
Tetralin	O	O	O				
Toluene	U	U					
Tomato Juice	S	S	S				
Tomato Soup	S	S	S				
Tributyl phosphate	S	O					
Trichloroacetic Acid	S	O					
Trichloroethylene	U	U					
Tricresyl phosphate	S	S					
Triethanolamine	O	O					
Trisodium phosphate	S	S					
Turpentine	S	O	O				