Chemical Resistance Chart

A Word about our Chemical Resistance Guide

The chemical resistance data provided here and on the following pages has been assembled from a wide variety of sources in our industry. This information is based on practical field experience and actual laboratory testing conducted by the manufacturers of various plastic resins and finished products. Please keep in mind that this information should only be used as a guideline for recommendations and not a guarantee of chemical resistance. Some performance variations may be noticed between homopolymers and copolymers as well as emulsion and suspension type resins of the same general type. In addition, actual service conditions including temperature, concentration and contaminants will affect variances in chemical resistance.

In assembling the chemical resistance data presented here, several sources were checked. When conflicts were uncovered, we took a conservative approach and used the lower of two or more ratings. In addition, special consideration was given to material as supplied by a particular vendor; i.e. our polyethylene ratings are based on information provided by tank manufacturers rather than pipe suppliers. This was done primarily because of the volume of tanks we supply as compared to polyethylene pipe. Our ratings are as follows:

A = Excellent, no effect
B = Good, minor effect
C = Fair, data not conclusive, testing recommended
D = Not recommended

NOTE: When "C" is indicated, we recommend checking further into possible suitability of a given product. Most manufacturers publish their own chemical resistance charts based on the particular resins they use. In most cases, we recommend testing the material under your actual operating conditions. This is often achieved with test coupons available through you local service center.

All data provided here is based on ambient temperatures between 68°F and 73°F. Unless otherwise indicated, all chemicals listed are assumed to be full concentrations or saturated solutions of normal purity.

CHEMICALS		APPROX. SP. GR. AT 100% CONCENTRATION	PLASTICS: PVC	PLASTICS: CPVC	PLASTICS: POLYPROPYLENE (PP)	PLASTICS: POLYVINYLIDENE FLUORIDE (PVDF)	PLASTICS: POLYETHYLENE-CROSS LINKED (XLPE)	PLASTICS: POLYETHYLENE (PE)	ELASTOMERS: RYTON	ELASTOMERS: TEFLON	ELASTOMERS: EPOXY	ELASTOMERS: VINYLESTER	ELASTOMERS: POLYSULFONE	ELASTOMERS: VITON	ELASTOMERS: EPDM	ELASTOMERS: NEOPRENE	ELASTOMERS: BUNA N (NITRILE)	ELASTOMERS: HYPALON	ALLOYS: 316 STAINLESS STEEL	ALLOYS: 304 STAINLESS STEEL	ALLOYS: TITANIUM	ALLOYS: HASTELLOY C
Acetaldehyde*	CH_3CHO		D	D	B	C	D	D	A	A	C			D	B	C	D	C		A	A	A	A
Acetaldehyde Aqueous 40%	CH_3CONH_2		D	D	A	D				A				B	A								
Acetamide					A				A	A	A			C	A	C	A	B		A	B		
Acetate Solvents, Crude			D	D	D	A																	
Acetate Solvents, Pure			D	D	D	A	B			A	A			D	C	D	D	D		A	B		
Acetic Acid* 05%										A				A	A	A	B	A					
Acetic Acid* 10%			A	A	A	A	A	A	A	A	B	B		D	B	B	B	B		A	A	B	A
Acetic Acid* 20%			A	B	A	A	A	A	A	A	D	B	A	C	B	B	B	B		A	A	A	A
Acetic Acid* 30%										A				C	A	B	B	B					
Acetic Acid* 50%			A	A	A	A	A	A	A	A	D	B	A	C	B	C	A	C		A	A		A
Acetic Acid* 60%			A		B	A		A		A	D			C	C	C				A			
Acetic Acid* 80%			B	B	C	A		B	A	A	D	C		C	B	C	C			A	A		A
Acetic Acid Glacial* 100%	CH_3COOH	1.05	D	D	B	B				A	D	D		D	B	C	D			A	B	B	A
Acetic Aldehyde (Acetaldehyde)		1.08								A				D	A	C	D	C					
Acetic Anhydride	$(CH_3CO)_2O$		D	C	B	B	A		A	A	A	D	D	D	C	B	C	A		A	A	B	A
Acetic Ester (See Ethyl Acetate)										A				D	B	D	D	D					
Acetic Ether (See Ethyl Acetate)										A				D	B	D	D	D					
Acetol										A													
Acetone*	$CH_3•CO•CH_3$	0.8	D	D	B	D	B	C	A	A	A	C	D	D	A	C	C	C		A	A	A	A
Acetonitrile (Methyl Cyanide)					B	A			C	A	A	C	D	C	A	A	C	B		A	A		B
Acetophenone	$C_6H_5COCH_3$	1.03			A	A				A				D	A	D	C	D		A	A		
Acetyl Acetone			D	D		D				A				D	A	D	D	D					

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Acetyl Benzene											A				D	A	D	D	D				
Acetyl Bromide							A				A												
Acetyl Chloride	CH_3COCl	1.1	D	D	A	A			A	A	A				C	D	D	C	D		A	B	
Acetyl Oxide											A				D	B	B	C	D				
Acetyl Propane											A				D	B	D	D	D				
Acetylene	HC•CH		C	C	A	A			A	A	A				A	A	B	A	C		A	A	
Acetylene Dichloride											A				A		D	D	D				
Acetylene Tetrachloride											A				A	D	D	D	D				
Acid Mine Water			A	A	B	A					A				A								
Acrylic Acid			D			A					A	C	C										
Acrylic Emulsions*					D		D	A				A											
Acrylonitrile	$CH_2=CHCN$		D	D	B	A			A	A	A	C			D	D	D	C	C		C	A	B
Adipic Acid Aqueous			A	A	A	A	A	A	A	A	A				A	A		A	A				
Air			A	A	A	A					A	A	A		A	A	A	A	A				
Alcohol (See Ethyl Alcohol)											A				B	A	A	A	A				
Alcohol, Allyl			D	D	A	A			A	A					B	A	A	A	A				
Alcohol, Amyl	$C_4H_9CH_2OH$		C	B	A	A	A	A	A	A	A	C			A	A	A	A	A		A	A	A
Alcohol, Benzyl	$C_6H_5CH_2OH$		D	D	A	A	D				A				A	C	C	D			A	A	A
Alcohol, Butyl	$C_3H_7CH_2OH$	.806	C	A	A	A	A		A	A	A	A			A	A	A	A	A		A	A	A
Alcohol Diacetone	$(CH_3)_2COHCH_2COCH_3$		D		C	B				A	A				D	A	C	C	A		A		A
Alcohol, Ether										A					B	A	C	C	B				
Alcohol, Ethyl	CH_3CH_2OH		A	A	A	A	A			A	A	A			B	A	A	A	A		A	A	A
Alcohol, Hexyl	$C_5H_{11}CH_2OH$		A		A		A	A		A	A				A	A	B	A			A	A	A
Alcohol, Isobutyl	C_3H_7CH					A	A			A	A	B			A	A	A	B			A	A	A
Alcohol, Isopropyl	$C_2H_5CH_2OH$		A	A	A	B	A			A	A	B			A	A	A	B			A	A	A
Alcohol, Methyl	CH_3OH		A	A	A	A	A			A	A	A			D	A	A	A	A		A	A	A
Alcohol, Octyl	$CH_7H_{15}CH_2OH$										A				A		A	B			A	A	A
Alcohol, Polyvinyl			A	A	A					A	A	C			A	A							
Alcohol, Propargyl			A																				
Acohol, Propyl	$C_2H_5CH_2OH$		A	A	A	A	A		A	A	A				A	A	A	A	A		A	A	A
Aldehyde										A					D	A	C	D	C				
Alkanes										A					A	D		A	D				
Alkazene										A					B	D	D	D	D				
Allyl Aldehyde										A					A			B	B				
Allyl Bromide										A					B		D	D	D				
Allyl Chloride			D			A	A		A	B	A	D			B	D	D	D	D		A		A
Allyl Trichloride										A					A			D	D				
Alum			A	A	A	A	A	A	A	A	A	A			A	A	A	A	A		A		A
Alum, Ammonium			D	D	A	A			A						A	A	A	A	A				
Alum, Chrome			A	A	A				A						A		A	A	A				
Alum, Potassium			A	A	A	A	A	A	A	A	A	D			A	A	A	A	A				
Aluminum, Acetate										A					C	A	B	B	B				
Aluminum, Ammonium Sulfate					A	A				A					A	A	B	B					
Aluminum, Bromide										A					A	A	A	A	A				
Aluminum, Chloride	$AlCl_3$	2.44	A	A	A	A	A	A	A	A	A	A			A	A	A	A	A		C	C	C	A

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Aluminum, Chlorohydroxide											A	B											
Aluminum, Citrate												A	A										
Aluminum, Fluoride		2.88	A	A		A	A	A	A								A	A	A	A	A	C	C	C	B
Aluminum, Formate											A						D			D	D				
Aluminum, Hydroxide	$Al(OH)_3$		A	A	A	A	A	A	A	A	A	A	A				C	A		A		A	A	A	
Aluminum, Nitrate			A	A	A	A		A	A	A	A	A	A				B	A	A	A					
Aluminum, Oxychloride			A	A	A	A			A								D								
Aluminum, Phosphate											A						A	A	A	A	A				
Aluminum, Potassium Sulfate			A	A	A	A					A	A	A				A	A	A	A	A				
Aluminum, Salts			A		A	A	A	A			A	A					A	A	A	A	A	D			
Aluminum, Sulfate	$Al(SO_4)_3$	2.7	A	A	A	A	A	A	A		A	A	A				A	A	A	A	A	B	B	A	A
Amber Acid			A	A	A	A					A						A	A							
Amines	$R - NH_2$		C			B					A	A					D		C	D	D	A	A	B	A
Ammonia 10%			A		A				A		A	B		A			A		A	D		A		A	A
Ammonia 15%														A											
Ammonia, Anhydrous 99.5%	NH_3		D	D	A	B	B				A			A			D	A	A	C	A	A	B	B	A
Ammonia, Aqueous 25%			A	A	A	A																			
Ammonia, Dry Gas			A	A	A		A	A	A		A	A					D	A	A	A	A			A	A
Ammonia, Liquid	NH_4OH		C		A	A	D				A	A					D	A	A	B		A	A		B
Ammonia, Nitrate	NH_4NO_3		B	B	A	A			A			A					A	A	C	B		A			
Ammonium Phosphate, Monobas			A		A		B				A	A					A	A	A	A		A	A	A	A
Ammonium Phosphate, Tribasic			A		A		B				A	A					A	A	A	A		A	A	A	A
Ammonium, Acetate			A	A	A				A		A						A	A	A	A					
Ammonium, Alum											A								B	B					
Ammonium, Bichromate											A							A	A	A	A				
Ammonium, Bifloride			A	A	A	A					A	A					A	A	C	B		A	C		B
Ammonium, Bisulfide			A			A																			
Ammonium, Carbonate	$(NH_4)_2CO_3$		A	A	A	A	A	A	A	A	A	A					A	A	B	C	B	B	A	A	B
Ammonium, Casenite												A							A			A			
Ammonium, Chloride	NH_4Cl	1.5	A	A	A	A	A	A		A	A	A					A	A	A	B	A	B		A	A
Ammonium, Dichromate			A							A								A	A	A	A				
Ammonium, Fluoride	NH_4F	1.3								A									B	B					
Ammonium, Fluoride 10%			A	A	A	A	A		A	A	A						A	A	A					B	A
Ammonium, Fluoride 20%			A		A	A				A							A	A							
Ammonium, Fluoride 25%			D	D	A	A																			
Ammonium, Hydroxide	NH_4OH		A	A	A	A	B	A	A	A	A	A					B	A	A	B	A	A	A	A	A
Ammonium, Metaphosphate			A	A	A	A	A	A		A							A	A	B	A	B				
Ammonium, Nitrate	NH_4NO_3	1.7	B	B	A	A	A	A	A		A	A					A	A	B	A	A	A			A
Ammonium, Oxalate	$NH_4C_2O_4$										A								A	A		A	A		A
Ammonium, Persulfate	$(NH_4)_2S_2O_8$	2.0	A	A	C	A				A	A	B	A				C	B	A	C		A	A	A	A
Ammonium, Phosphate			A	A	A	A	A		A	A	A	A					A	A	A	A	A				
Ammonium, Phosphate Di Basic	$(NH_4)_2HPO_4$		A	A	A		B			A	A						A	A	A	A		A	A	A	A

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Ammonium, Phosphate Monobasic	$(NH_4)H_2PO_4$			A	A		A							A		A	A		C		A	A
Ammonium, Phosphate Tribasic	$(NH_4)_3H_2PO_4$			A	A		A							A		C	A		A		A	A
Ammonium, Salts			A		A	A	A	A		A	A			C	A	A	A	A	D			
Ammonium, Sulfate	$(NH_4)SO_4$	1.8	A	A	A	A	A		A	A	A	A		C	A	A	B	A	B	A	A	A
Ammonium, Sulfide			A	A	A	A	A		A	A				C	A		A					
Ammonium, Thiocyanate	NH_4SCN	1.3	A	A	A		A		A	A	A	A		A	A	A	A	A				
Ammonium, Thiosulfate	$(NH_4)_2S_2O_3$									A	A	A		A	A	A	A	A	A		A	
Amyl Acetate	$CH_3CO_2C_5H_{11}$	.86	D	D	D	C	C	C	A	A	A	C		D	A	A	C	D	A	A	D	A
Amyl Alcohol* (See Alcohol Amyl)		0.8	C	B	A		A	A	A	A	A		C	A	A	A	A		A		C	C
Amyl Borate						A				A				A	D	A	A	A				
Amyl Bromide										A				B	D	D	D	D				
Amyl Chloride	$CH_3(CH_2)_3CH_2Cl$	0.8	D	D	D	A	D	D	A	A	A	C		A	D	D	D		B	C	C	B
Aniline*	$C_6H_5NH_2$	1.02	D	D	A	C	C	A	A	A	D	D		B	B	D	D	D	A	A	B	C
Aniline Chlorohydrate			A																			B
Aniline Hydrochloride			C	D	A	A			A	A				B	B	D	C	D				
Anisole	$C_6H_5OCH_3$	1.0							A													
Anthraquinone Sulfonic Acid			A	A	A	A			A					A								
Anti-Freeze			A		A		B		A	A	A			A	A	A	A		A	A		A
Antichlor										A				A	A	A	A	A				
Antimony Chloride	$SbCl_3$	3.1			A	A	A	A		A	A			A		D	D					
Antimony Pentachloride										A		A				D	D	D				
Antimony Trichloride			A		A	A			A	A	A	A		A	A		A					
Aqua Regia 80% HCL, 20% Nitric			D	D	D	A	B	D	A	A	D	D		C	C	C	C	D	D	D	B	C
Argon										A				A	A	D	C	D				
Arochlor 1248							B				A			A		D	D					
Aromatic Hydrocarbons			D	D			C				A			A	D	D	D		A			
Arsenic Acid	H_3ASO_4		A	A	A	A	A		A	A	A	A		A	A	B	B		B	A		
Arsenous Acid											A	A										
Aryl Supfonic Acid			D	D	D	D																
Asphalt			D	D	A	A	D		A	A	A			A	D	B	B	C	A	A		
Aviation Fuel (115-145 OCT)									B	A												
Aviation Turbine Fuel									B	A												
Baking Soda (See Sodium Bicarbonate)										A				A	A	A	A	A				
Barium Acetate											A	A										
Barium Carbonate	$BaCO_3$	4.3	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	B	A	A	A
Barium Chloride	$BaCl_2$	3.1	A	A	A	A	A	A	A	A				A	A	A	A	A	B	B	A	A
Barium Cyanide							B				A			A		A	C		A			
Barium Hydrate										A				A	A	A	A	A				
Barium Hydroxide	$Ba(OH)_2$	2.2	A	A	A	A	A	A	A	A	A			A	A	A	A	A	A	C	B	B
Barium Nitrate	$BaNO_3$		A	A	A					A	B			A		A	A		A		A	
Barium Salts			A		A	A	A	A		A	A			A	A	A	A	A	A			

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Barium Sulfate	$BaSO_4$	4.4	A	A	A	A	A	A	A	A	A	A			A		A	A	B		A	A	A	A
Barium Sulfide	BaS	4.3	A	A	A	A	A	A	A	A	A	A			A	A	A	A	A		A	A		
Beer			A	A	A	A	A	A	A	A					A	A	A	C	A		A	A	A	A
Beet Sugar Liquid			A	A	A		A			A	A				A	A	A	A	A		A	A		
Beet Sugar Liquors			A	A	A	A				A					A	A	A	A	A					
Benzaldehyde*	C_6H_5CHO	1.05	D	D	C	C	D		A		B	D			C	C	D	D	D		A	A	A	A
Benzalkonium Chloride			A																					
Benzene	C_6H_6	0.9	D	D	C	B	D	D	A	A	A	C	D		B	D	C	C	D		B	A	A	B
Benzene Sulfonic Acid*	$C_6H_5SO_3H$		D	D	D	B	A	A	A	A	A	A			A	D	B	C	B			A		
Benzene Sulfonic Acid 10%			D	D	D	B	D	A		A	A				A									
Benzil Chloride	$C_6H_5CH_2Cl$	1.1								A					A	D	D	D	D					
Benzoic Acid	C_5H_6COOH	1.3	A	A	A	A	A	A	A	A	A	A			A	B	C	D	B		B	A	A	A
Benzol (See Benzene)																								
Benzyl Alcohol (See Alcohol, Benzyl)	$C_6H_5CH_2OH$	1.05			A				A	A					A	B	D	C						
Benzyl Benzoate										A					A	C	D	D	D					
Benzyl Chloride	$C_6H_5CH_2Cl$	1.1			A	D			C	A					D	D		D	D					
Bismuth Carbonate	$(B10)_2CO_3$	6.8	A	A	A	A	A	A	A	A					A	A		A	A					
Black Liquor			A	A	A	A	A	A	A	A	B	B			A	B	A	A	A					
Bleach (See Sodium Hypochlorite)			A	A	A	A	A	A		A	A				A	A	D	D	A					
Borax	$NA_2B_4O_7$		A	A	A	A	A	A	A	A		A	A		A	A	C	A	A		A	A	A	A
Boric Acid	H_3BO_3	1.4	A	A	A	A	A	A	A	A	A	A			A	A	A	B	A		B		A	A
Brake Fluid										A					D	A	B	C	B					
Brewery Slop											A				A		A	A			A			
Brine			A	A	A	A				A					A	A	A	A	A					
Brine Acid			A	A	A	A	A		A	A					A	A		A						A
Bromic Acid			A	A	D	A		A		A					A	B								
Bromine Dry										A	D	D			A	D	D	D	D					
Bromine Gas			C		D	A	D	D	C	A	A	C			A	D	D	D	C					
Bromine Liquid	Br	3.1	D	D	D	A	D	D		A	D	D			A	D	D	D	D					
Bromine Water			C	C	C	A	D		D	A	D	D			A	D	D	C	D		D	D	A	A
Bromobenzene			A							A					A	D	D	C	D					
Bromotoluene			D		D																			
Butadiene Gas			B	A	A	A			A	A	A				A	D	B	D	B		A	A		
Butane	$CH_3(CH_2)_2CH_3$	0.8	A	A	A	A	C		A	A	A				A	D	A	A	B		A	A		B
Butanediol* (Butylene Glycol)			A	B		A	A							C	A	D								
Butanol (See Alcohol, Butyl)										A			C								A	A		A
Butter							A			A	A				A		B	A	B		A	B		
Buttermilk										A	A				A		A	A			A	A		
Butyl Acetate	$CH_3COO(CH_2)_3CH_3$	0.9	D	D	C	B	D		A	A	B	C			D	B	D	C	C		C	A		B
Butyl Acrylate Pure			D	D	D	A				A					D	A								
Butyl Acrylate Saturated															D	A								
Butyl Amine			D	D	D	B			A	A					D	D	D	C	C			A		
Butytbenzene (Phenylbutane)										A					A			D	D					
Butyl Benzoate										A					A	A	D	D	D					

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CHEMICALS		APPROX. SP. GR. AT 100% CONCENTRATION	PLASTICS: PVC	PLASTICS: CPVC	PLASTICS: POLYPROPYLENE (PP)	PLASTICS: POLYVINYLIDENE FLUORIDE (PVDF)	PLASTICS: POLYETHYLENE (PE)	PLASTICS: POLYETHYLENE-CROSS LINKED (XLPE)	ELASTOMERS: RYTON	ELASTOMERS: TEFLON	ELASTOMERS: POLYSULFONE	ELASTOMERS: VINYLESTER	ELASTOMERS: EPOXY	ELASTOMERS: VITON	ELASTOMERS: EPDM	ELASTOMERS: NEOPRENE	ELASTOMERS: BUNA N (NITRILE)	ELASTOMERS: HYPALON	ALLOYS: 316 STAINLESS STEEL	ALLOYS: 304 STAINLESS STEEL	ALLOYS: TITANIUM	ALLOYS: HASTELLOY C
Butyl Bromide							A			A				B			D	D				
Butyl Butyrate (Butyl Butanoate)										A				C	B	D	D	D				
Butyl Carbitol										A				A	A	B	C	A				
Butyl Cellosolve (Ethylene Glycol Monobutyl Ether)			A				A			A	A	C	D	D	B	C	C	B		A		
Butyl Chloride (Chlorobutane)							A			A				A			D	D				
Butyl Diol			B	A	A	A				A				A	A							
Butyl Ether			D	D	D	A			A	A				D	D	C	B	C		A		
Butyl Formate										A						D	D					
Butyl Hydrate										A				A	B	A	A	A				
Butyl Hydride (See Butane)										A				A	D	A	A	B				
Butyl Hydroxide										A				A	B	A	A	A				
Butyl Mercaptan							A			A												
Butyl Phenol			C	A	A	A																
Butyl Phthalate			D	D	A	A				A				C	B		D	D				
Butyl Stearate							A			A				A	B	D	B	D				
Butylene (Liquified Petroleum Gas)			A	A	D	A	B		A	A	A			A	D	C	B	C		A	A	
Butyraldehyde	$CH_3(CH_2)_2CHO$									A	A			D	B	C	D	C				
Butyric Acid	$CH_3(CH_2)_2COOH$		D	B	A	A	B		A	A	A	A		B	B	C	D	C		B	B	A	A
Cadmium Cyanide			A	A										A		A						
Cadmium Salts					A	A	A	A		A	A			A								
Caffeine Citrate			A			A				A												
Calamine		3.5								A				A		B	B	A				
Calcium Acetate			A	A	A	A				A				D	A	B	B	B				
Calcium Bisulfide			A	A	A	A	B		A	A	A	A		A	D	A	A			B		A	A
Calcium Bisulfite			A	A	A	A				A				A	D	A	A	A				
Calcium Carbonate	$CaCO_3$	2.7	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A		A	A	A	A
Calcium Chlorate	$Ca(ClO_3)_2$	2.7	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A		A	C		B
Calcium Chloride	$CaCl_2$	2.1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		B	B	A	A
Calcium Cyanide										A					A	A	A	A				
Calcium Hydroxide	$Ca(OH)_2$	2.3	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A		A	A	A	A
Calcium Hypochloride										A			A	A	A	D	D	A				
Calcium Hypochlorite	$Ca(ClO)_2$	2.3	A	A	B	A	A	A	A	A	C	A		A	A	D	B	A		D	A	B	A
Calcium Nitrate		1.820	A	A	A	A	A	A	A	A	A	A		A	A	A	B	A					
Calcium Oxide			A			A			A	A					A	A	A	A				
Calcium Phosphate	$CaHPO_4$	2.3								A				A	A	B	A	A				
Calcium Sulfate	$CaSO_4$	2.9	A	A	A	A	A	A	A	A	A	A		A	A	B	A	A		A	A	A	B
Calcium Sulfide			A	A	A	A				A				A	A	B	A	A				
Calcium Thiosulfate		1.872								A				A	A	A	B	A				
Calgon (Sodium Hexametaphosphate)	$(NaPO_3)_6$				C	A	D	A		A	A			A		A	A			A	A		
Cane Sugar Liquors			A	A	A	A			A	A				A	A	A	A	A		A	A		
Caprylic Acid (Octanic Acid)						A			A	A	A	A					C	B				
Carbinol (See Alcohol, Methyl)										A				D	A	A	A	A				

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Carbolic Acid (See Phenol)	C_6H_5OH			A	A												C	C	D	A		B	A
Carbon Bisulfide*			D	D	D	A	D	D		A	A			A		C	D	D		C	A		
Carbon Dioxide (Wet or Dry)	CO_2		A	A	A	A	A	A	A	A	A	A		A	B	B	A	A		A	A	A	A
Carbon Disulfide	CS_2		D	D	D	A	C	D	C	A	A	C		A	D	C	C	D		A	A		
Carbon Monoxide	CO		A	A	A		A	A		A	A	A		A	A	B	A	A		A	A		
Carbon Tetrachloride	CCl_4	1.6	D	D	D	A	D	D	C	A	B	C	A	B	D	D	C	D		A	C	A	A
Carbonic Acid	H_2CO_3		A	A	A	A	A	A		A				A	A	A	B	A		B	A		A
Casein						A				A				A	A	A	A	A					
Castor Oil*		0.95	A	A	A	A	C	A	A	A	A			A	B	A	A	A					
Catsup			A	A	A						A			A		C	A			A	A	
Caustic Lime (Calcium Hydroxide)										A				B	A	A	A	A					
Caustic Potash (Potassium Hydroxide)			A	A	A	A			A	A				D	A	B	A	A					
Caustic Soda (Sodium Hydroxide)			A	A	A	A			A	A				B	A	B	C	A					
Cellosolve (See Butyl Cellosolve)			B		A	A			A	A				C	B		C				A		
Cetyl Alcohol									A														
Chloral Hydrate (Knockout Drops)		1.901	A	A	A	A			A					A			C						
Chlorasetic Acid*			A		D		D			A	B			D	B	D	D			D	D	A	A
Chloric Acid			A			A				A	C					D	D			D	D		
Chloric Acid 20%			A	A	D	A																	
Chlorinated Glue											A			A	B	D	C			A	A		
Chlorine Dioxide			A	A	C	A				A	D	B		D									
Chlorine Dry									C	A	D			C	B	C	D	C		A	A	D	A
Chlorine Gas Dry			D	D	D	A				A	D	A		B	D	C	C	D					
Chlorine Gas Wet			D	D	D	A				A	D	A		C	D	D	C	D					
Chlorine Liquid	Cl_2		D	D	D	A	C	C	A	C	A						C						
Chlorine Water			A	A	C	A	A	A	A	A	B	A		A	B	C	C	B		D		A	B
Chlorosulfonic Acid	$ClSo_2Ho$	1.770	D	D	D	C	D	D	D	A	C	D		D	D	D	D	D		D	D	A	B
Chlorox Bleach 5.5% CL2			A	A	C	A			C	A	A			A	B	B	C	B		A	A		A
Chocolate Syrup					A						A			A		A	A			A	A		
Chresylic Acid 50%			A			B	D		A		D	D		A		D	D			A			B
Chrome Alum (Chr. Potass. Sulf.)			A	A	A	A	A	A	A		A	A		A			A						
Chromic Acid 05%			A		D		B		A		B	A	D	A	A	D	D			A	A	A	A
Chromic Acid 10%			A	A	B	A				A	C		D	A	B	D	D				B	A	A
Chromic Acid 20%			B	B	D	A	A	A	A	A	C	C	D	B	B	C	C	A			C	A	A
Chromic Acid 30%			B	B	D	A				A	D		D	A		D	D				B	A	A
Chromic Acid 50%	H_2CrO_4		D	D	D	A	D	A	B	A	C	C	D	A	B	D	D	A		D	C	A	A
Chromium Alum			A	A	A	A				A				A	A								
Citric Acid*	$C_6H_8O_7 \cdot H_2O$	1.543	A	A	A	A	C	A	A	A	A	A	A	A	A	A	B	A		A	A	A	A
Citric Oils					A					A	A			A	B	D	A	D		A	A		
Cobalt Chloride		3.348								A				A	A	A	A	A					
Coconut Oil			A	A	A	A	A	A	A	A	A	A		A	B	B	A	B					

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Cod Liver Oil											A				A	A	B	B	B				
Coffee				A	A							A	A		A	A	A	A	A		A	A	
Coke Oven Gas			D	A	A	A					A				A	A	B	D					
Cola Concentrates					A		A																
Copper Acetate			A	A	A	A					A	A	A		D	A	B	B	C				
Copper Borofluoride			A	A	A	A					A				A	A							
Copper Carbonate			A	A	A	A			A	A					A	A		D					
Copper Chloride	$CuCl_2 \cdot 2H_2O$	3.4	A	A	A	A	B	A	A	A	A	B	A		A	A	C	A	A		B	D	A	A
Copper Cyanide	$Cu(CN)_2$		A	A	A	A	B	A	A	A	B	A			A	A	A	B	A		A	A	A	A
Copper Fluoburate	$CuBF_6 \cdot 4H_2O$		A				A			A	A				A		A	B			D	D		B
Copper Fluoride	CuF_2	2.9	A	A	A	A		A	A	A					A	A								
Copper Nitrate	$Cu(NO_3)_2$	2.3	A	A	A	A	B	A	A	A	A	A			A	A	A	A			A	A	A	A
Copper Salts			A	A	A	A				A					A	A	A	A	A					
Copper Sulfate	$CuSO_4 \cdot 5H_2O$	2.3	A	A	A	A		A	A	A	A	A			B	A	A	B	A		A	C	A	A
Copper Sulfate 5%			A		A		B		A	A	A				A		A	A			A	A	A	A
Corn Oil			A	A	A					A	A	A			A	B	A	A	B					
Corn Syrup			A	A	A	A				A	A	A			A	B		A						
Cottonseed Oil*			A	A	A	A	C	A	A	A	A	A	A		A	B	A	B				A		
Cream				A	A						A				A		C	A			A	A		
Creosol	$CH_3C_6H_4OH$	1.05	C	D	C	C	C	D	A	A	A				A	D	D	D			A	A		
Creosote			D	D						A					A	D	D	B	C					
Cresols*	$C_6H_4OH \cdot CH_3$		D	D	C	A	D	A	A	A	A				A	D	D	D	C		A	A		
Cresylic Acid			C	C	A	A	C			A	D	D			A	D	D	D			A	A	A	B
Croton Aldehyde			D	D	A	C			D	A					A	B								
Crude Oil			A	A	A	A			B	A	A	A	A		A	D	B	D			A			
Cryolite			B	B	A	A				A					A	A	A	B						
Cupric Cyanide (See Copper Cyanide)							A																	
Cupric Fluoride			A	A	A	A	A		A	A	A				A	A								
Cupric Nitrate							A			A					A	A	A	A	A					
Cupric Salts			A		A	A	A	A		A					A	A	D				D			
Cupric Sulfate (See Copper Sulfate)			A	A	A	A	A		A	A					A	A		A						
Cutting Oil										A					A	D	B	A	B					
Cyanic Acid (Isocyanic Acid)	HOCN									A	A					A	A	A	A			A		
Cyclohexane			A	A	D	A	C		A	A	A	B	A		A	D	D	C				A	A	
Cyclohexanol	$C_6H_{11}OH$	0.94	D	D	A	C		A	A	A	B				A	B		B				A		
Cyclohexanone*	$C_6H_{10}O$	0.95	D	D	B	C	D	D	B	A			D		D	C		C				A		
Decalin			D	D	A	A			A	A					A	D	D	D	D					
Decanal										A					D			D	D					
Decane						A				A					A	D	C	B	C					
Detergents*			A	A	B	A	C	A	A	A	A	A			A	A	A	A			A	A		
Detergents, Heavy Duty			A	A	A	A																		
Developers							A	A		A	A	A					A	A					A	A
Dextrin			A	A	A	A	A	A		A	A				A	A	A							
Dextrose			A	A	A	A	A	A		A	A	A			A	A	A	A						

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Diacetone Alcohol			D	D	A	B					A				D	A	C	D	B				
Diallyl Phthalate												A	A										
Diazo Salts			A	A	A	A	A	A				A											
Dibenzyl Ether	$(C_6H_5CH_2)_2O$					A					A					C	D						
Dibutyl Amine						A					A				C	D	D	C	C				
Dibutyl Ether	$CH_3(CH_2)_3O(CH_2)_3CH_3$					A					A				C	C	D	C	C				
Dibutyl Phthalate			D	D	B	A		C	A		A	A			B	A	D	D	D				
Dibutyl Sebacate			B			A					A				C	B			D				
Dicalcium Phosphate												A	A										
Dichlorethane			D				D				A	A			C		D				A	A	A
Dichloro Benzene			D								A	A	D		B	D		D	D				
Dichlorobenzene						A					A	B	D		A	D	D	D	D				
Dichloroethylene	ClHC	1.25	D		D	A					A				A	D	D	D	D				
Dichloroisopropyl Ether						A																	
Dichloromethane											A	D	D		B	D	D	D	D				
Diemethyl Phthalate												B	B										
Diesel Fuel			A	A	B	A	D	A	A	A	A	A	A		A	D	D	A	D		A	A	
Diethanolamine	$(HOCH_2CH_2)_2NH$	1.1										D	D										
Diethyl Cellosolve						A			A							D							
Diethyl Ether			D	D	B	A			A	A	B	D	D		C	C	C	D	C				
Diethyl Ketone										A		D			D	B	D	D	D				
Diethyl Oxide										A					D	D	C	B	C				
Diethylamine			D	D	A	C			A	A	C	D			D	B	B	B	C			A	
Diethylbenzene										A					A	D	D	D	D				
Diethylene Glycol*	$O(CH_2CH_2OH)_2$			A	A		B	A		A	A	A			A		A	A			A	A	
Diethylenetriamine						A				A	D	D						B	C				
Diglycolic Acid			A	A	A	A		A	A	A					A	A			A				
Diisobutyl Ketone						A									D	D							
Diisobutylene						A				A					A	D			A			A	
Diisooctyl Phthalate										A					B	B			D				
Diisopropyl Ketone	$(CH_3)_2CHCOCH(CH_3)_2$					B				A					D	B							
Dimethyl Amine			D	D	A	B				A					D	C		B	D				
Dimethyl Benzene										A					A	D	D	D	D				
Dimethyl Ether										A					B	B	C	B	C				
Dimethyl Formamide			D	D	A	A			D	A	D	D			C	B		B	D			A	
Dimethyl Ketone										A					D	A	C	D	C				
Dimethyl Phthalate						B				A	C	C			B	B	D	D	D			A	
Dimethylamine			D	D	A	D		C	A		D	D			D	D							
Dioctyl Phthalate			D	D	D	A	D	D	A	A			A		A	B	D	D	D			A	
Dioxane			D	D	B	D			D	A					D	B	D	D	D			C	
Dioxolane		1.065				D									D	D							
Diphenyl		1.0								A					A	D	D	D	D				
Diphenyl Ether (See Diphenyl Oxide)																							
Diphenyl Oxide												A	B		A	D	D	D				A	
Dipropylene Glycol		1.252								A	A	A			A			A	A				

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Disodium Methylarsonate												A											
Disodium Phosphate			A	A	A	A	A	A	A	A	A	A				A		A	A				
Distilled Water			A	A	A	A																	
Divinylbenzene			D	D	D	D			A														
Dolomite										A				A	B	A	A	A					
Dowtherm (Ethylene Glycol)									A							D							
Dry Cleaning Solvents										A				A	D	C	A	D					
Epichlorohydrin	OCH_2CHCH_2Cl		D	D	A	A				A				D	D					A			
Epsom Salts			A		A	A				A	A			A	A	B	A	A	A	A	A	A	B
Esters			D	D	C	A				A													
Ethane							D			A	A			A	D	B	A	B	A	A	A		
Ethanol (See Alcohol, Ethyl)																							
Ethanolamine	$HOCH_2CH_2NH_2$	1.02	D	D	D	D			A	A	A		A	D	A	D	B		A	A			
Ethers			D	D	C		C		A	A	A			C	C	D	D	D	A	A			B
Ethyl Acetate	$CH_3COO \bullet C_2H_5$		D	D	C	A	C	D	A	A	B	D		D	B	D	D	D	A	A			B
Ethyl Acetoacetate			D	D		A			A	A				D	A		D						
Ethyl Acrylate	$CH_2CHCOOC_2H_5$		D	D	D	A			B	A				D	B	D	D	D					
Ethyl Alcohol*		0.8	A	A	A	A	D	A	A	A	A			B	A	A	A	A					
Ethyl Benzene						A				A				A	D	D	D	D					
Ethyl Bromide					D		D	D															
Ethyl Butyrate							D	D															
Ethyl Cellosolve											B	D											
Ethyl Chloride (Chloroethane)	CH_3CH_2Cl	0.92	D	D	D	A	D	D	A	A	D	D		A	A	C	B	C	A	A	A	A	B
Ethyl Ether	$C_2H_5OC_2H_5$		D	D	B	A	D	D		A	C	D		C	D	D	D	D					
Ethyl Formate										A				B	B	B	D	C					
Ethyl Hexanol						A				A				A	A	B	B	A					
Ethyl Sulfate										A	A			D			C	D	D	D			
Ethylcellulose																A		A					
Ethylene Bromide			D	D	C	A			C	A				B	C	D	D	D					
Ethylene Chloride			D	D	C	A	D	D	A	A	A			A	C	D	D	D	A	A	B	B	
Ethylene Chlorohydrin			D	D	A	A		D		A	B	B		A	A	B	D	B					
Ethylene Diamine			D	D	A	C			D	A	D	D		D	A	A	A	B		A			
Ethylene Dichloride* (Dichloroethane)	$CH_2CL \bullet CH_2 \bullet CL$	1.25	D	D	C	A	D	D	A	A	B	D		A	D	D	D	D	A	B	A	B	
Ethylene Glycol*	$HOCH_2 \bullet CH_2OH$	1.1155	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A		A	A		A	
Ethylene Oxide	$(CH_2)_2O$	0.9	D	D	D	A	A	A	D	A	A			D	D	D	D	D	A				
Extrin			A	A	A	A				A				A	A								
Fatty Acids*			A	B	A	A	C	A		A	A	A		A	D	B	B	D	A	A	A	A	
Ferric Acetate (Iron Acetate, Basic)			B							A	A	B		D			D	A					
Ferric Chloride, Anhydrous	$FeCl_3$	2.9	A	A	A	A	B	A	A	A	A	A		A	A	B	B	B	D	D	A	B	
Ferric Hydroxide			A	A	A					A				C	A								
Ferric Nitrate	$FeNO_3$	1.7	A	A	A	A	B	A	A	A	A	A		A	A	A	A	A	B	A	A	A	
Ferric Sulfate	$Fe(SO_4)_3$	3.1	A	A	A	A	A		A		A	A		A	A	A	B	A	B	A	A	A	
Ferrous Chloride	$FeCL_2$	3.2	A	A	A	A	B	A	A	A	A	A		A	A	B	B	B	D	D	A	B	
Ferrous Nitrate			A	A	A	A			A	A	A	A		A	B	B	A	B					

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Ferrous Sulfate	$FeSO_3$	1.9	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	B
Fish Solubles*			A	A	B		B	A			A												
Fluoboric Acid (Fluoro Boric Acid)	HBF_4	1.8	A	A	A	A	A	A			A	A		A	A	A	B	A		B	D	D	A
Fluorine Gas (Wet)			A	A	B	A			D	A				A	A	D	D	D					
Fluorine, Liquid		1.108	C		D	A	C	C		B	D	D		B	C	C	D	D		D	D	D	A
Fluosilicic Acid	H_2SiF_6		C	A	A	A	B	A	A	A	C	C		A	A	A	A	A		B		D	B
Formaldehyde*	HCHO	1.01	A	A	A	A	B	A	A	A	B	A	A	B	B	B	B	B		A	B	A	B
Formaldehyde* 35%			A	A	A	A				A				A	A								
Formaldehyde* 50%			A	A	A	A				A				B	D								
Formic Acid*	HCOOH	1.2201	A	A	A	A	A	A	A	A	D	C		D	A	A	C	B		B	A	C	A
Freon 11 (MF)	CCl_3F		A	A	A	A	C		A	A			C	B	D	D	B	A		A	A		
Freon 113 (TF)	$C_2CL_3F_3$		A			A		A	A	A	A			B	D	A	A			A	A		
Freon 114			A			A			A	A				A	C		A				A		
Freon 12			C	A	A	A	A		A	A				B	A	A	B	A		A	A		
Freon 12 (Wet)			B		A		C		A	A	A			A	B	B	A			D			
Freon 22	$CCIF_2$		D	D	A	A	A		A	A	A		C	D	B	B	D	A		A	A		
Freon TF			B	B	D		D		A	A	A			B	D	A	A			A	A		
Fructose			A	A	A	A	A	A	A	A	A			A	A	A	A			A			
Fruit Juice			A	A	A	A	B	A	A	D	A			A		A	A	A		A	A		
Fruit Pulp*			A	A	A	A	A	A	A					A									
Fuel Oil*			B		B	A	D	A	A	A	A	A		A	D	D	A	A		A	A	A	A
Fumaric Acid (Boletic Acid)										A				A		B	A	B					
Furan		0.938								A				D	D	A					A		
Furfural (Ant Oil) (Bran Oil)	C_4H_3OCHO	1.2	D	D	C	B	D	C	A	A	D	D		D	B	D	D	C		A	A		B
Furfuryl Alcohol						B	D	C		A				D	C								
Gallic Acid			A	A	A	A	D	A		A				A	A		A			A	A		A
Gas, Natural			A	A	A	A			A					A	D		A						
Gasoline,* Leaded			A	A	D	A	D	A	A	A				B	D	B	A	D		A	A	D	A
Gasoline,* Sour			A	B	D	A	D	A	A	A				A	D	B	A	D		A	A	D	A
Gasoline,* Unleaded			C	A	D	A	D	A	A	A				B	D	B	A	D		A	A	D	A
Gelatin			A	A	A	A				A	A			A	A	A	A	A		A	B		A
Gin*			A	A	A	A	D	A	A	A				A	A								
Gluconic Acid 50%											B	C											
Glucose	$C_6H_{12}O_6$		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A			
Glue			A	A	A	A				A	A			A	B	A	A	A		A	B	A	
Glycerin (See Glycerol)			A	A	A	A		A	A	A	A	A	A	A	A	A	A	A		A	A	A	A
Glycerol (Glycyl Alcohol)	$C_3H_5(OH)_3$	1.3	A	A	A	A	B	A		A	A			A	A	A	A	A		A			
Glycolic Acid* (See Hydroxyacetic Acid)			A	A	A	A	B	A	A	A	A			A	A	A	A						
Glycols*			A	A	A	A	A	A		A	A			A	A	A	A						
Glyoxal											B			A									
Gold Monocyanide											A			A		A	A			A			
Grape Juice			A	A			B				A			A		A	A			A	A		
Grape Sugar			A	A	A	A	A			A				A	A	A	A						
Grease			A		A	A	A	A		A				A	D	B	B	C		A	A		

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Green Liquor			A	A	A	A				A			A	A	A	B	B	B				
Helium										A				A	A	A	A	A				
Heptane*	$CH_3(CH_2)_5CH_3$		A	A	B	A	D		A	A	A	A	A	A	D	B	A	B	A	A		A
Hexane*	$CH_3(CH_2)_4CH_3$	0.6594	B	A	B	A	D	A	A	A	A	B	A	A	D	B	A	B	A	A		A
Hexene		0.6734								A				A	D	B	A	C				
Hexyl Alcohol (Hexanol)			A	A	A	A				A				A	B							
Honey			A		A	A	A	A		A	A			A		A	A		A	A		
Hydraulic Oil							D			A	A	A		A	D	B	A	B				
Hydraulic Oil (Synthetic)					D						A	A		A		C	C		A	A		
Hydrazine		1.004	D	D	D	D	A			A	C			D	A	C	C	C	A	A		
Hydrobromic Acid	HBr	48% = 1.5	A	A	B	A	B			A	B	B		A	A	D	D		D	D	A	A
Hydrobromic Acid 20%			A	A	A	A				A	B		A	A	A	C	D		D		A	A
Hydrobromic Acid 50%			A	A	B	A	A	A		A				A	A	A	D		C		D	B
Hydrochloric Acid (Dry Gas)	HCl		A							A	A				A				A	C		A
Hydrochloric Acid 10%			A	A	A	A				A	B	A	A	A	A	A	B				C	A
Hydrochloric Acid 20%			A	A	A	A	A	A	C	A	B	A	A	A	A	B	B	A	D	D	C	A
Hydrochloric Acid 25%			A	A	A	A				A			A	A	A	B	C	A				
Hydrochloric Acid 37% (Muriatic Acid)		1.19	A		A	A	A	A	D	A	C	B	A	A	C	C	C		D	D	C	B
Hydrocyanic Acid	HCN		A	A	A	A	A	A	A	A	A			A	A	A	B	A	A	A	A	A
Hydrocyanic Acid 10%			A	A	A	A	A	A	A	A	A			A	A	B	B	A	D	D		
Hydrofluoric Acid 10%			A	A	A	A				A				A	A	A	B	A				
Hydrofluoric Acid 20%	$HF•H_20$		A		A		C	A	A	A	B	D		A	A	C	D	C	D	D	D	B
Hydrofluoric Acid 30%			A	A	A	A				A				A	A							
Hydrofluoric Acid 40%			B	D	A	A				A				A	A							
Hydrofluoric Acid 50%			B	D	A	B	C	A	A	A			C	A	A	B	C	A	D	D	D	B
Hydrofluoric Acid 65%										A				A	B	C	D	A				
Hydrofluoric Acid 75%	HF	0.987	C	C	A	A	D	A	C	A				A	D	D	D	A	D			
Hydrofluosilicic Acid	H_2SiF_6		D	D	A	A	A	A		A	A			A	A	C	A	A	D	D	A	C
Hydrofluosilicic Acid 20%			D		A					A	C			A	A	B	B		D	D	D	B
Hydrogen	H		A	A	A	A	A	A	A	A	A			A	A	A	A		A			
Hydrogen Chloride Gas Dry					A	A	A	A			A											
Hydrogen Cyanide			A	A	A	A				A				A	A	B	B	A				
Hydrogen Fluoride			D	D	A	A																
Hydrogen Peroxide 05%			A	D	A	A				A				A	A							
Hydrogen Peroxide 10%			A	A	A	A	A		B	A	D					D	A		C	C	C	A
Hydrogen Peroxide 30%			A	D	C		A	A	C	A	B	C		A	B	D	D	C	B	C	B	A
Hydrogen Peroxide 50%			B	B	A	A		B	A	A				A	C	D	D	A				
Hydrogen Peroxide 90%			D	D	D	A		C	A	A				B	C	D	D	C				
Hydrogen Peroxide	H_2O_2		A		A	A	B	A	C	A	C	B		A	B	C	C	B	B	A	B	A
Hydrogen Phosphide (See Phosphine)			D	A	A	A	A	A									C					
Hydrogen Sulfide	H_2S		A		A	A	A	A		A	A	A		A	A	A						
Hydrogen Sulfide (Aq. Sol.)		1.1895	A	A	A		A	A	A	A	A	A		C	A	C	C	A	A		A	A
Hydrogen Sulfide (Dry)			A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	C		A
Hydroquinone			A	A	A	A	A	A		A				A	A	A	D	A				

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Hydroxyacetic Acid (Glycolic Acid)				A			A							A		A	A				A	
Hydroxyacetic Acid 70%	$HOCH_2COOH$		A	A			A				A			A	A	A	A				B	
Hydroxylamine Sulfate			A	A	A	A									A					A		
Hypochlorous Acid			A	A	A	A	A	A		A		A		B	B	D	D	D	D			
Ink*					A	A	D	A			A					A	A		A	A		
Iodine Solution	I_2		B	A	C	A	D	D	B	A	A	C		A	A	C	C	A	D	D	A	B
Isobutyl Alcohol (See Alcohol, Isobutyl)	$(CH_3)_2CHOH$	0.806				A				A				A	A							
Isooctane	$(CH_3)_3CCH_2CH(CH_3)_2$	0.7	A	A	A	A				A			A	A	D	A	A	A				
Isophorone			D	D										D	D							
Isopropyl Acetate		0.9226					B			A	A			D	B	D	D		B			
Isopropyl Alcohol (See Alcohol, Isopropyl)																						
Isopropyl Chloride (See Chlorpropene)																						
Isopropyl Ether		0.723	D	D	C	A	D			A				D	D	D	B	D	A			
Jet Fuel JP-3					A		D		C	A	A	A		A	D	C	A	D	A	A		
Jet Fuel JP-4			A	A	C	A	D		C	A	A	A		A	D	D	B		A	A		
Jet Fuel JP-5			A	A	C	A	D		C	A	A	A		A	D	C	A	D	A	A		
Kerosene*		0.81	A	A	A	A	D	D	B	A	A	A		A	D	D	A	D	A	A	A	A
Ketones			D	D	A	A	D		A	A	C			D	C	D	D	D	A	A	A	A
Kraft Liquor			A	A	A	A																
Lacquer					A		D			A	A			D	D	D	D	D	A	A		
Lacquer Thinner			C		B					A					A	D	D		A		A	A
Lactic Acid* (Milk Acid)	$CH_3CHOHCOOH$	1.2	A	A	A	A	B	A	A	A	A	A	A	B	B	B	B	A	A	A	B	A
Lard			A	A	A	A	B		A	A	A			A	C	C	A	C	A			
Lard Oil			A	A	A	A				A				A	A							
Latex*					A		A	A		A	B	B		A	B	C	B	C	A	A		
Lauric Acid		0.833	A	A	A	A			A	A	A	A								A		
Lauryl Chloride	$C_{12}H_{25}Cl$		A	A	A	A				A												
Lead Acetate (Sugar of Lead)	$Pb(C_2H_3O_2)_2 3H_2O$	2.5	A	A	A	A	B	A	A	A	A	A		C	A	B	B	C	B	A	A	A
Lead Chloride	$PbCl_2$		A	A	A	A				A				A	A	B		A				
Lead Nitrate	$Pb(NO_3)_2$		A	A	A					A	A	A		A	A	A	A	B				
Lead Sulfate			A	A	A	A				A				A	A	B	A	A				
Lemon Oil			A	A	D	A			A	D												
Levulinic Acid											A	A										
Ligroin (Benzine)			D	D	C	A	D				A			A	C	B	A		A			
Lime (Calcium Oxide)	CaO		A		A		A			A	A	A		A	C	A	A	A	A	A	A	
Lime-Sulfur Solution			A	A	A	A											D					
Linoleic Acid (Linolic Acid)		0.905	B	A	A	A			A	A				B	D	D	B	D				
Linseed Oil (Flaxseed Oil)			A	A	A	A	D	A	A	A	A	A	A	A	B	B	A	B				
Lithium Bromide	Li Br		A			A				A				A			A					
Lithium Chloride	Li Cl										B	A										

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LPG											A											A	
Lubricants			A		A					A	A	A			A		D	A			A	A	A	A
Lubricating Oil			A	A	A	A					A				A									
Lye Solution (See Sodium Hydroxide & Potassium Hydroxide)																								
Machine Oil			A	A	A	A					A				A		D							
Magnesium Acetate											A				D			D	A					
Magnesium Carbonate	$MgCO_3$	3.0	A	A	A	A	B	A	A		A	A	B		A	B	A	A	A		A	A		B
Magnesium Chloride	$MgCl_2$	2.3	A	A	A	A	B	A	A		A	A	A		A	A	A	A	A		B	B	A	A
Magnesium Citrate			A	A	A	A					A				A	A								B
Magnesium Hydroxide (Milk of Magnesia)	$Mg(OH)_2$	2.36	A	A	A	A					A				A	A								
Magnesium Nitrate	$Mn(NO_3)_2 \bullet 6H_2O$	2.03	A	A	A	A	A	A	A		A	A	A		A	B	B	A	A		A	A	A	A
Magnesium Oxide											A	A			A	A	A	A			A	A		
Magnesium Sulfate (Epsom Salts)	$MgSO_4$	2.6	A	A	A	A	A	A	A		A	A	A		A	C	A	A	A		A	B	A	B
Maleic Acid			A	A	A	A	A		A		A	A	A		A	C	B	D	C		A	A	A	A
Maleic Anhydride							D					A			A		D	D						A
Malic Acid (Apple Acid)			A	A	A	A	D		A		A	A	A		A	D	C	A	B		A	A	A	A
Manganese Sulfate			A	A	A						A				A	A	A	A	A					
Mash												A					A	A			A	A		
Mayonnaise					A						A	A			A			A			A	A		
Melamine (Triazane)	$N \bullet C(NH_2)N \bullet C(NH_2)N \bullet C(NH_2)$											A						C			D	D		
Mercuric Chloride	$HgCl_2$	5.4	A	A	A	A	A		A		A	A	A		A	A	A	A	A		D	D	A	B
Mercuric Cyanide	$Hg(CN)_2$	4.0	A	A	A	A	A		A		A	A			A	B	B	A	A		A	A	A	
Mercuric Nitrate	$HgNO_3$	4.8									A				A	A	A		A					
Mercuric Sulfate			A	A	A	A					A				A	A		A						
Mercurous Chloride												A	A											
Mercurous Nitrate			A	A	A	A	A		A		A				A	A								
Mercury (Quicksilver)	Hg	13.59	A	A	A	A	A	A	A		A	A	A		A	A	A	A	A		A		B	A
Methacrylic Acid Glacial		1.015	D									D	D											
Methane (Methyl Hydride)	CH_4		A	A	A	A					A				A	C	B	A	B					
Methane Sulfonic Acid						A					A													
Methanol (See Alcohol, Methyl)	CH_3OH	0.8									A			A	D	A	A	A	A					
Methoxyethyl Oleate		0.898	A																					
Methyl "Cellosolve"™			D	D	A	A			A						D	B	D	D						
Methyl Acetate	$CH_3CO_2CH_3$	0.9244	D	D	B	A					A				D	B	C	D	C		A			A
Methyl Acetone							D				A	C			D		D	D			A			
Methyl Acrylate	$CH \bullet CHOOCH_3$					A					A	A			D	B	C	D			A			
Methyl Alcohol*	CH_3OH		A	A	A	A	C	A			A	A			C	A		A	A					
Methyl Benzene (See Toluene)											A				A	D	D	D	D					
Methyl Bromide	CH_3Br	1.732	D	D	D	A	D	C	A		A				A	C	D	D						

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Chemical Resistance Chart

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Methyl Butanol (See Alcohol, Amyl)												A					B		A	A	A		
Methyl Butyl Ketone	$CH_3CO(CH_2)_3CH_3$											A	B				D	B	D	D	D	A	
Methyl Chloride* (Choromethane)	CH_3Cl	1.3	D	D	D	A	D		A	A	C	D					C	C	D	C	D	A	C	A	A
Methyl Chloroform (Trichloroethane)			D	D	C	A				A							B	D							
Methyl Ether (See Dimethyl Ether)										A							C	C	C	B	C				
Methyl Ethyl Ketone* (MEK)	$CH_3CO•CH_2CH_3$	0.82	D	D	C	D	D	D	C	A	C	D					D	A	D	D	D	A	A	A	A
Methyl Formate	$HCOOCH_3$																D	A							
Methyl Isobutyl Alcohol											B	B							D	D					
Methyl Isobutyl Carbinol										A	C						A	A							
Methyl Isobutyl Ketone	$CH_3C•NOHCH(CH_3)_2$		D	D	C	A			C	A	B	D					D	B	D	D		A	A	A	A
Methyl Isopropyl Ketone			D	D	B	A				A	B						D	C	D	D	D	A			
Methyl Methacrylate*	$CH_2C(CH_3)COCH_3$	0.95	A							A	C	D					D	D	C	D	B				
Methyl Propanol										A							A	B	A	A	A				
Methyl Salicylate (Wintergreen Oil)		1.180	A	A	A	A																			
Methyl Sulfate			B	A	A	A													C						
Methylamine	CH_3NH_2		D	D	D	C				A	A							A	A	B		A			
Methylene Bromide	$BrCH_2$	2.47				D																			
Methylene Chloride*	CH_2Cl_2	1.335	D	D	D	C	D	D	A	A	D	D					B	D	D	D	D	A	A	A	A
Methylene Iodine	CH_2I_2		D			C				A							A								
Methylhexane										A							A	D	B	A	D				
Methylisobutyl Carbinol			A	A	A	A											A	A							
Methylmethacrylate						A				A							D	D							
Methylsulfuric Acid			A	A	A	A	C	A		A	A														
Milk			A	A	A	A	A	A		A	A						A	A	A	A		A	A		
Mineral Oil			B	A	A	A	D	D	C	A	A	A					A	D	C	A	B		A		
Molasses			A	A	A		B	A	A	A	A						A	C	A	A		A	A		
Monochloracetic Acid (See Chloroacetic Acid)			A	A	B	A				A							B	C							
Monochlorobenzene (See Chlorobenzene)	C_6H_5Cl				B	A				A							A	D							
Monoethanolamine			D			D			A	A							A	A	D	A					
Morpholine		1.002								A			D									A			
Motor Oil			A	A	C	A				A							A	D		A					
Mustard			A	A	A						A						A		C	B		A	A		
Naphtha*			A	A	A	A	D	D	A	A	A	A	A				A	D	D	B	C	A	A	A	B
Naphthalene* (Tar Camphor)	$C_{10}H_8$	1.15	D	D	B	A	C		C	A	A	A					B	D	D	D	D	B	A	A	A
Natural Gas			A	A	A	A					A						A	D	A	A	A				
Neon										A							A	A	A	A	A				
Nickel			A	A	A		A	A	A	A							A	A	A	A					
Nickel Acetate			A	A	A	A				A	A						D	A	B	B	D				
Nickel Chloride	$NiCl_2$	3.5	A	A	A	A	B	A	A	A	A	A					A	A	A	B	A	B	A	A	A

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Nickel Cyanide	$Ni(CN)_2 \cdot 4H_2O$		A	A																			
Nickel Nitrate	$Ni(NO_3)_2 \cdot 6H_2O$	2.1	A	A	A	A	A	A	A	A	A	A		A	B	B	A	A					
Nickel Sulfate	$NiSo_4$	3.7	A	A	A	A	A	A	A	A	A	A		A	A	B	A	A		C			B
Nicotine*			A	A	D	C	C	A		A						C							
Nicotine Acid*			A	A	A	A	A	A	A	A													
Nitric Acid 10%			A	A	A	A	A	A	C	A	A	C		A	B	B	D	A		A	A	A	A
Nitric Acid 20%			A		A		A	A	C	A	C	C	A	A	D	D	D						
Nitric Acid 30%			A	A	A	B	A	A	D	A	C			A	B	D	D	D					
Nitric Acid 40%			A	A	C	B	C	B	D				A	A	D		D						
Nitric Acid 50%			A	A	C	B	C	A	C	A	C			A	D	D	D	C					
Nitric Acid 70%			D	D	D	D	C	C	D	A			D	C	D	D	D	D					
Nitric Acid Concentrate*	HNO_3	1.5	D	D	D	D	D	D	D	A	D			C	D	D	D	C					
Nitric Acid Fuming*	HNO_3		D	D	D	D																	
Nitrobenzene* (Oil of Mirbane)	$C_6H_5NO_2$	1.1987	D	D	C	A	D	D	B	A	B	D		C	C	D	C	D		B	A	A	B
Nitroethane	CH_3NO_2	1.13				A				A				D	A								
Nitrogen	N								A	A				A	A	A	A	A			A		
Nitrogen Dioxide	NO_2					A				A													
Nitrogen Solutions											B	C				A		A					
Nitroglycerine		1.6009	D						A						A								
Nitromethane						A				A					B								
Nitrous Oxide			A	A	A	A			A	A				A	A		A	A					
Ocenol			A	A	D	A																	
Octane						A				A				A	D								
Octyl Acid (Caprylic Acid)	$CH_3(CH_2)_6COOH$	0.9105				A			A	A	A	A					C	B					
Octylamine										A				D			C	C					
Oils*			A	A	A	A	C				A	A	A										
Oils, Aniline			D		A					A	A			A	B	D	D			A	A	A	D
Oils, Anise											A					D				A	A		
Oils, Bay*											A			A		D				A	A		
Oils, Bone*											A			A		D	A			A	A		
Oils, Castor*			A								A			A	B	A	A			A	A		
Oils, Cinnamon*			A								A			A		D				A	A		
Oils, Citric*					A						A			A		D	A			A	A		
Oils, Clove*					B						A						A			A	A		
Oils, Coconut*					A						A			A	A	A	A			A	A		
Oils, Cod Liver					A						A			A	A	A	A			A	A		
Oils, Corn*				A	A						A			A	C	D	A			A	A		
Oils, Cotton Seed*			A	A	A				A	A	A			A	C	D	A			A	A		
Oils, Creosote					D						A			A	D	C	B			A	A		
Oils, Crude Sour*											A	A											
Oils, Diesel Fuel				A	A				A		A	A		A	D	D	A			A	A		
Oils, Fuel			A							A	A			A	D	D	B			A	A	A	A
Oils, Linseed			A	A	A						A			A	D	D	A			A	A		
Oils, Mineral			A		A				A		A			A	D	A	A			A	A		
Oils, Olive			A	A	A					A	A	A		A	B	D	A	A		A			
Oils, Pine			A	A						A	A			A		D	C			A			

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Oils, Silicone					A						A			A		A		A		A	A	
Oils, Vegetable*			A	A	A	A			A					A				A				
Oleic Acid (Red Oil)		0.895	A	B	A	A	D	D	A	A	A	A		B	C	B	B	B		A	A	B
Oleum			D	D	D	D		D	D	A	D	D		D	D	D	D	D		A		
Orange Extract					A	A	A	A		A												
Oxalic Acid	$(COOH)_2$	1.7	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	A		B	A	C	B
Oxygen Gas			A	A	A	A			A	A			A	A	A	A	C	A					
Ozone			B	B	C	A	C	C	A			A		A	A	B	D	A					
Palmitic Acid 10%			A	A	A	A	B		A	A	A	A		A	B	C	A	C					
Palmitic Acid 70%			C	A	A		B		A	A	A	A		A	B	C	A	C					
Paraffin			A	A	A	A				A	A			B	D	B	A	D		A	A		
Pentane (Amyl Hydride)										A	A			A	D	B	A	B		C	C		B
Peracetic Acid 40%		1.15	D	D	D	A				A				A	B								
Perchloric Acid 10%			A	A	A	A	A	A	A	A	D			A	B	D	D	D					
Perchloric Acid 70%	$HClO_4$	1.764	D	D	A	A			D	A	D			A	A	D	D	D					
Perchloroethylene	$(CCl_2)_2$	1.6	D	D	C	A			A	A	B	D		A	D	D	D	D		A	A		
Perphosphate			A	A	A					A				A	A								
Petrolatum (Petroleum Jelly)			A	A	A	A				A	A			A	C	B	A	B		A			
Petroleum (Sour)*			A											A	D		A						
Petroleum Oils			A	A	B	A				A				A	D	C	A	C					
Phenols 100% (Carbolic Acid)	C_6H_5OH	1.1	D	A	A	A	B	D	A	A	D	D		B	C	D	D	C		A	A	C	A
Phenylacetate		1.073								A				D	B	D	D	C					
Phenylhydrazine			D	D	D	A				A				C	C	D	D	D					
Phenylhydrazine Hydrochloride			A	A	D	A																	
Phosgene Gas			D	D	C	A			A					D	A	C	D						
Phosgene Liquid		1.392	D	D	D	C			A					D	A	C	D						
Phosphoric Acid 10%			A	A	A	A		A	A	A	C	A		A	A	C	C	A		A	D	B	A
Phosphoric Acid 20%			A	A	A	A				A			A	A	A	B	C	A					
Phosphoric Acid 40%			A		A		B		A	A	A			A	B	D	D			A	B	A	A
Phosphoric Acid 50%			A	A	A	A	A	A	A	A	C	A	A	A	A	C	C	B		B	D	B	A
Phosphoric Acid 80%			A	A	A	A				A				A	A								
Phosphoric Acid 85%		1.8	A	A	A	B	B	A	A	A	C	A		A	A	C	C	B		B	D	C	A
Phosphoric Acid 100%			A		A		C	A	A	A	C	A	A	A	B	D	D	C		B	C	B	A
Phosphoric Acid Crude	H_3PO_4	1.834					C		A	A	C	A		A	B	D	C	A		C	D	C	A
Phosphorus Oxychloride		1.675								A		D				D		D					
Phosphorus Red			A	A	A	A			A	A													
Phosphorus Trichloride	PCl_3	1.574	D	D	C	A	A		D	A				C	C	D	D			A	A		
Phosphorus Yellow			A	A	A	A		A	A	A						C							
Photographic Developer			A	A	A	A	B	A			A			A		A	A			A	C	A	A
Photographic Solutions*			A	A	A	A	A	A	A	A				A			A						
Phthalic Acid (Terephthalic Acid)			D	D	D	A				A				A	A								
Phthalic Anhydride	$C_6H_4(CO)_2O$		D	D	D					A	B	A		A	A		C			B	A		A
Pickle Brine			A	A	A	A										A		A					
Pickling Solutions*			A	A	A	A				A				B	C	D	D	D					

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Picric Acid			C	C	A	A	C	A	A	A	C			A	C	A	B	A		A	A		A
Pine Oil										A	B	B		A	D	C	B	D					
Plating Solutions, Antimony			A	A	A					A	B			A		A	A			A		A	A
Plating Solution, Arsenic			A	A	A						B			A		A	A			A		A	A
Plating Solutions, Brass			A	A	A	A	A	A	A	A	B			A	A	A	A			A		A	A
Plating Solutions, Bronze			A	A	A					A	B			A		A	A			A		A	A
Plating Solutions, Cadmium			A	A	C	A	A	A	A	A	B			A	A	C	A			A		A	A
Plating Solutions, Chrome			A	A	C	A	A		B	A	D			C	B	C	D	D		C		A	A
Plating Solutions, Copper			A	A	A	A	A	A	A	A	D			A	A	A	A			D		A	A
Plating Solutions, Gold			A	A	C	A	A	A	A	A				A	A	A	A			C		A	A
Plating Solutions, Indium			A	A	A		A	A		A	A			A		A	A			C		A	A
Plating Solutions, Iron			D	A	C					A	D			A		C	A			C		A	D
Plating Solutions, Lead			A	A	A	A	A	A	A	A				A	A	C	B			C		D	A
Plating Solutions, Nickel			A	A	A	A	A	A	A	A	D			A	A	A	A			C		A	A
Plating Solutions, Rhodium			A	A	A	A	A	A	A	A	A			A	A	B	A			D		D	D
Plating Solutions, Silver			A	A	A	A	A	A	A	A	A			A	A	A	A			A		A	A
Plating Solutions, Tin			A	A	A	A	A	A	A	A				A	A	C	B			C		D	A
Plating Solutions, Zinc			A	A	A	A	A	A	A	A	A			A	A	A	A			D		A	D
Polyethylene Glycol			A	A	A	A				A				A	A		A	A					
Polyvinyl Acetate Emulsion						A				A	C			A	A	B		B					
Polyvinyl Alcohol			A	A	A	A				A	B	C		A	A								
Potash (Potassium Carbonate)	K_2CO_3		A	A	A	A	B			A	A			C	B	D	C	A		A	A		A
Potassium Acetate	$KC_2H_3O_2$	1.6	A	A	A	A				A				D	A	B	B	B					
Potassium Alum (Aluminum Potassium Sulfate)			A	A	A	A				A				A	A	A	A	A					
Potassium Bicarbonate	$KHCO_3$	2.2	A	A	A	A	A	A	A	A	A	B		A	A	A	A	A		B	A	A	B
Potassium Bichromate			A	A	A	A		A	A	A				A	A	B	A	A					
Potassium Bisulfate	$KHSO_4$		A	A	A	A				A				A	A	A	A	A					
Potassium Bromate	$KBrO_3$	3.3	A	A	A	A	A	A	A	A				A	A	A	A						
Potassium Bromide	KBr	2.7	A	A	A	A	B	A	B	A	A	A		A	A	A	A	A		B	A	A	B
Potassium Carbonate (Potash)	K_2CO_3	2.4	A	A	A	A	B	A	A	A	C	C		A	A	A	B	A		A	A	A	B
Potassium Chlorate, Aqueous	$KClO_3$	2.3	A	A	A	A	B	A	A	A	A			A	A	C	A			A	A	A	B
Potassium Chloride	KCl	2.0	A	A	A	A	B	A	A	A	A	A		A	A	A	A	A		A	C	A	B
Potassium Chromate	K_2CrO_4	2.7	A	A	A	A	B	A	A	A	C			A	A	A	A	C		B			B
Potassium Coppercyanide			A	A	A	A				A				A	A								
Potassium Cyanide	KCN	1.5	A	A	A	A	B	A	A	A	B	A		B	A	A	A	A		B	A	A	A
Potassium Dichromate	$K_2Cr_2O_7$	2.7	A	A	A	A	A	A	A	A	B	B		A	A	A	A			A		A	B
Potassium Ferricyanide			A	A	A	A	A	A	A	A	A	A		A	A	A	A	A					
Potassium Ferrocyanide	$K_4Fe(CN)_6$	1.9	A	A	A	A	A	A	A	A	B	A		A	A		C				A		B
Potassium Fluoride	KF	2.5	A	A	A	A	A	A	A	A				A	A	A	A	A					
Potassium Hydroxide* (Caustic Potash)	KOH	2.0	A	A	A	A	C	A	A	A	B	B		C	B	B	C	A		C	C	C	B
Potassium Hydroxide* 25%											C	B	A										
Potassium Hydroxide* 50%			A	A	A	B							B										
Potassium Hypochlorite			A	A	A	A			A	A				A	A	D	D	B					

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Potassium Iodide	KI		A	A	A	A				A				A	A	A	A	A				
Potassium Nitrate (Salt Peter)	KNO_3	2.1	A	A	A	A	B		C	A	A	A	A	B	A	A	A	A	B	A	A	B
Potassium Perborate			A	A	A	A	A	A	A	A						A						
Potassium Perchlorate	$KClO_4$	2.5	A	A	A		A	A	A	A					A	C						
Potassium Permanganate	$KMnO_4$	2.7	A	A	B	A	B		A	A	D	C		B	A	A	C		B	A	B	B
Potassium Persulfate			A	A	A	A	A	A	A	A	D	B			A	C						
Potassium Phosphate											B	C				A	A					
Potassium Salts					A	A	A	A		A	A			A	A	A						
Potassium Sulfate	K_2SO_4	2.7	A	A	A	A	B	A	A	A	A			A	A	A	A	A	B	A	A	B
Potassium Sulfide	K_2S	1.8	A				A	A		A				A	A	A	A	A		A		B
Potassium Thiosulfate	$K_2S_2O_3$									A				A		A	A	A				
Propane (Dimethylmethane)	C_3H_8		A	A	B	A			A	A	B	C		A	D	B	A	B	A	A		
Propanol (See Alcohol, Propyl)										A				A	A	A	A	A				
Propargyl Alcohol			A	A	A	A	A	A														
Propyl Acetate	$C_3H_7OOCCH_3$	0.887				A				A				D	B	D	D	D				
Propyl Alcohol	$CH_3CH_2CH_2OH$	0.8	A	A	A	A	A	A		A				A	A	A	A	A				
Propylene	$CH_3CH{:}CH_2$									A				A	D	D	D	D				
Propylene Dichloride			D	D	C	A	C	D		A				B	D	D	D	D				
Propylene Glycol	$CH_2OHCHOHCH_3$	1.0					B	A		A	A	A		A	A	C	A	A	A	B		
Pyridine*	C_5H_5N	1.0	D	D	C	C	C	A	A	B	A		D	D	C	D	D		C	C		A
Pyrogallic Acid (Pyrogallol)			B			D				A	A			A		A	A		A	A		B
Quaternary Ammonium Salts											B											
Rayon Coagulating Bath*			A	A	A	A	C	A														
Rhodan Salts			A	A	A	A				A				A	A							
Rosins					A					A	A			A		A	A	B	A	A		B
Rum			A		A					A	A			B	A	A	A	A		A		
Rust Inhibitors					A						A			A		C	A		A	A		
Salad Dressings			A		A						A			A			A		A	A		
Salicylaldehyde			D			C			B	A				A	A							
Salicylic Acid	$C_6H_4(OH)(COOH)$		A			A			A	A				A	A	C	C	A				
Saline Solutions			A	A	A	A										A						
Salt Brine			A	A	A	A				A				A	A	A	A	A				
Sea Water			A	A	A	A	B			A	A			A	A	B	A		C	A	A	
Selenic Acid	H_2SeO_4	2.609	A	A	A	A	B	A								A						
Sewage			A	A	A	A			A	A				A	A	A	A	A				
Shellac Bleached					A					A	A						A		A	A		
Shellac Orange					A					A	A						A			A		
Silicic Acid	$SiO_2 \bullet nH_2O$		A	A	A	A	A	A		A				A	A							
Silicone Oil			A	A	A					A				A	A	A	A	A	A			
Silver Bromide	AgBr										A								C	C		A
Silver Cyanide	AgCN		A	A	A	A			A	A				A	A	A						
Silver Nitrate	$AgNO_2$		A	A	A	A	B	A	A	A	B	A		A	C	A	C	A	B	A	A	A
Silver Salts			A		A	A	A	A		A	A			A	A	A			A			
Silver Sulfate	$AgSO_4$		A	A	A	A				A				A	A	A	C				A	
Soap Solutions*			A	A	A	A	B	A	A	A	A			A	A	B	A	A	A	A	A	B
Soda Ash (Sodium Carbonate)	$NaCO_3$									A				A	A	A	A	A				

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Sodium	Na		A	A	A	A				A				A	A							
Sodium Acetate	$NaC_2H_3O_2$	1.5	A	A	A	A	B	A	A	A	B	A		C	A	B	C	B		B	A	A
Sodium Alum			A	A	A	A				A				A	A	A	A	A				
Sodium Aluminate	$Na_2Al_2O_4$								A	A	A			A	A	A	A			A		B	B
Sodium Benzoate	$C_6H_5COOH_2$		A	A	A	A				A	B	A											
Sodium Bicarbonate	$NaHCO_3$	2.2	A	A	A	A	B		A	A	A	A		A	A	A	A			A	A	A	
Sodium Bichromate			A	A	A	A			A	A				A	A								
Sodium Bisulfate	$NaHSO_4 \bullet H_2O$	2.4	A	A	A	A	B	A	A	A	A	A		A	A	A	B	A		A	A	A	B
Sodium Bisulfite	$NaHSO_3$	1.5	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A		A	A	A	B
Sodium Borate (Borax)	$Na_2 \bullet B_4O_7$	1.7	C	A	A	A	A	A	A	A				A	A	A	A	A			A		A
Sodium Bromate	$NaBrO_3$											B											
Sodium Bromide	NaBr		A	A	A	A	A	A	A	A	A	A		A	A								
Sodium Carbonate (Soda Ash)	$NaCO_3$		A	A	A	A	B	A	A	A	C	B		A	A	A	A			A	A	A	A
Sodium Chlorate	$NaClO_3$	2.5	A	A	A	A	B	A	A	A	A	B		A	A	A	C	A		B	A	A	B
Sodium Chloride (Salt)	NaCl	2.2	A	A	A	A	B	A	A	A	A	A		A	A	A	A	A		C	C	A	A
Sodium Chlorite	$NaClO_2$		D	D	D				A	B				D	D								
Sodium Chromate	Na_2CRO_4				A				A	A	C			B		A	A	C		A	A		B
Sodium Cyanide	NaCN		A	A	A	A	A	A	A	A	A	A		A	A	A	A	A		A	A	A	
Sodium Dichromate	$Na_2Cr_2O_7$	2.5	A	A	A	A	A	A	A	A	A	A		A	A	B		B					
Sodium Ferricyanide	$Na_3Fe(CN)_6$	1.5	A	A	A	A	A	A	A	A	A	A		A	A								
Sodium Ferrocyanide	$Na_4Fe(CN)_6$	1.5	A	A	A	A	A	A	A	A	A	A		A	A								
Sodium Fluoride	NaF	2.6	A	A	A	A	A			A				B	A	C	C				C	A	A
Sodium Hydrosulfide											B												
Sodium Hydrosulfite			C							A				A		A							A
Sodium Hydroxide 15%			A	A	A	A		A	A	A	A	C	A	C	A	A	A	A		B	A	A	
Sodium Hydroxide 20%			A	A	A	A	C	A	A	A	A		A	C	A	A	A			B	A	A	A
Sodium Hydroxide 30%			A	A	A	A	C	A	A	A	C	C	A	C	A	A		A		B			
Sodium Hydroxide* 50%		2.1	A	A	A	A		A	A	A	C	C	A	C	A	B	D	A		B	B	A	A
Sodium Hydroxide* 70%			A	A	B	B	C	A	A	A				D	A	B	D	A				A	B
Sodium Hydroxide Conc. (Caustic Soda)	NaOH		A	A	A	A	D	A	B	A	A			B	A	B	D	B					
Sodium Hypochlorite 20% (Bleach)	NaOCl		A	A	B	A	B	A	C	A	B		A	A	B	D	C			C	C	A	A
Sodium Hypochlorite Conc.	NaClO		A	A	B	A	A	A	A	A	D	B		D	D	D	D	A					
Sodium Hyposulfate										A	C					C				A	A		
Sodium Iodide	NaI								A														
Sodium Metaphosphate	$Na(PO_3)N$		A	A	C	A				A	A			A	A	B	A			A			
Sodium Metasilicate			A	A	A	A				A				A	A	A	A			A			
Sodium Nitrate	$NaNO_3$	2.3	A	A	A	A	A	A	A	A	A	A		B	A	B	C	A		B	A	A	B
Sodium Nitrite	$NaNO_3$	2.2	A	A	A	A			A	A	A	A		A	A	A		A		B			
Sodium Palmitrate			A	A	A	A				A													
Sodium Perborate	$NaBO_3$		A	A	A	A				A	A			A	A	C	C	B		C			
Sodium Perchlorate			A	A	A	A				A													
Sodium Peroxide	Na_2O_2		A	A	A	A				A	A			A	B	C	C	B		A	A		B
Sodium Phosphate Acid (Di Basic)	N_2HPO_4		A	A	A	A				A				A	A		A						

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Sodium Phosphate Alkaline (Mono Basic)	NaH_2PO_4		A	A	A	A				A				A	A		A					B
Sodium Phosphate Neutral (Tri Basic)	Na_3PO_4		A	A	A	A				A				A	A		A					
Sodium Polyphosphate										A	A			A	A	D	B	B	A	A	A	A
Sodium Silicate	$NaSiO_3$		A	A	A	A					A	A		A	A	A	A	A	B		A	
Sodium Sulfate	Na_2SO_4	2.7	A	A	A	A	A	A	A	A	A	A		A	A	A	A		B	A	A	B
Sodium Sulfide	Na_2S	1.4	A	A	A	A	A	A	A	A	A	B		A	A	A	C		B	A	A	B
Sodium Sulfite	Na_2SO_3	2.6	A	A	A	A	A	A	A	A	A	A		A	A	A	A		C	C	A	A
Sodium Tetraborate			A								A			A			A		A			
Sodium Thiocyanate	NaSCN		A	A	A	A				A	B	B		A	A							
Sodium Thiosulfate	$Na_2S_2O_3 \bullet 5H_2O$	1.7	A	A	A	A			A	A	B	A		A	A		B		A			
Sorghum											A			A		A	A		A	A		
Soy Sauce											A			A		A	A		A	A		
Soybean Oil			A	A	A	A				A				A	A	A		A				
Stannic Chloride	$SnCl_4$	2.3	A	A	A	A	B		A	A	A	A		A	A	C	A	A	A		A	
Stannic Salts			A		A	A	A	A		A	A			A	A	A						
Stannous Chloride (Tin Salts)			A	A	A	A	A		A	A	A	A		B	B	C	C	A	C	D	A	A
Starch (Amylum)	$C_6H_{10}O_5$	1.513	A	A	A		B			A	A			A	A	A	A	A	A	A		
Stearic Acid*	$CH_3(CH_2)_{16}COOH$		A	A	B	A	C	A	A	A	A	A		A	C	C	B	C	B	A	A	A
Stoddard Solvent			D	D	C	A	D		A	A				A	D	D	B		A	A	A	A
Strontium Carbonate	$SrCO_3$										A	A										
Styrene						A				A	C			C	D	D	D	D	A	A		
Succinic Acid (Butanedioic Acid)	$CO_2H(CH_2)_2CO_2H$		A	A	A	A				A				A	A							
Sugar Solutions					A					A	A			A		B	A	A	A	A		A
Sulfamic Acid	HSO_3NH_2		D	D	D	D			A													
Sulfate Liquors			A	A	A	A					A			A	A	C	A	A	C	C		A
Sulfated Detergents			A	A	A	A																A
Sulfer 10%			A		A		B		A	A	A			A	D	D	C		C	D	A	A
Sulfer Dioxide			D		D		C		A	A	C			C	A	B	D		A	A	A	B
Sulfite Liquor			A	A	A	A				A	B	A		A	A	C	B					
Sulfur			A	A	D	A	B	A	A	A				A	C	B	C	A				
Sulfur Chloride	S_2Cl_2	1.690	A	A	C	A	A		D	A	C	D		A	D	D	D	A	D	D		
Sulfur Dioxide Dry	SO_2		A	A	A	A			C	A				A	A	D	D	D	B	A		B
Sulfur Dioxide Wet			C	A	A	A	B		A	A	D	A		A	A	C	D	C				
Sulfur Slurries			A	A	A	A																
Sulfur Trioxide Dry	SO_3		C	C	D	D			C	B	A	B		C	C	C	C	C	C			
Sulfuric Acid 10%			A	A	A	A	B		A	A	A			A	B	C	C	B	C	D	A	A
Sulfuric Acid 30%			A	A	A	A	A		A	A	B	B	A	A	A	A	C	A	D	D	C	B
Sulfuric Acid 50%		1.8	A	A	A	A	A	A	D	A	B	A	A	A	B	C	C	B	D	D	C	B
Sulfuric Acid 60%			A	A	A	B	B		A	A	C	C	A	A	B	D	D		D		C	B
Sulfuric Acid 70%			A	A	C	A	B		A	A	C	C		A	A	D	C		D		C	B
Sulfuric Acid 80%			D	A	A	A	C		A	A	D		A	A	A	D	C	A	D		D	A
Sulfuric Acid 90%			D	A	C	A	D		A	A	D	D		A	A	D	C		D		D	A
Sulfuric Acid 95%			D	C	D	A	D	A	D	A	D	D	D	A	D	D	D	C	D	A	D	A

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Sulfuric Acid 98%*	H_2SO_4	1.84	D	D	D	A	D	D			B				D	D	D				D			
Sulfuric Acid 100%	H_2SO_4		D	D	D	C			C		B	D	D		C	D	D	D	D		C		D	B
Sulfurous Acid	H_2SO_3	1.03	A	A	A	A	B	A	A		A	A	A		A	C	D	D			B	C	A	B
Sulfuryl Chloride		1.667	A								A	A												
Syrup			A		A						A	A			A		B	A			A	A		
Tall Oil			A	A	A	A			A		A	D	A		A	D	B	A	C					
Tallow		0.86			A	A	B	A			A	A			A	A	B	A	B		A	A		
Tannic Acid*	$C_{76}H_{52}O_{46}$		A	A	A	A	C	A	A		A	A	A		A	B	A	C	A		C	A	A	B
Tanning Liquors			A	A	A	A			A		A	A			A	B	A	C			A	A	A	A
Tar			D	D	B	A					A				A	D		C						
Tartaric Acid (Dihydrxysuccinic Acid)	$C_4H_6O_6$	1.8	A	A	A	A	B	A	A		A	A	A		A	B	B	C	A		B	A	A	B
Tertiary Butyl Alcohol			A	A	A	A					A				A	B								
Tetrachlorethane	$(Cl_2HC)_2$		D		A						A	A			A	D		D			A		A	A
Tetrachloroethane						A					A			D	A	D								
Tetraethyl Lead	$Pb(C_2H_5)_4$		B	A	A	A			A		A	C			B	D		C						
Tetrahydrofuran*			D	D	B	B	D	D	A		A				D	D	D	D			A	A		
Tetralin	$C_{10}H_{12}$		D	D	D	A					A				A	D	D	D	D					
Thionyl Chloride	$SOCl_2$	1.638	D	D	D	D	D		D		A	D	D											
Thread Cutting Oils			A	A	A	A			A							D								
Titanium Tetrachloride			D	D	D	D		C	A		A				A	D	D	C	D					
Titanous Sulfate		1.47	A	A	A	A					A													
Toluene*	$CH_3C_6H_5$	0.9	D	D	C	A	D	D	D		A	B	D	D	B	D					A	A		
ToluneToluol	C_7H_8		D	D	C	B	D		A		A	A			C	D	D	D	D		A	A	A	A
Tomato Juice			A	A	C	A			C		A	A				A	A	A			A	A		
Toxaphene-Xylene			D	D	D	A																		
Transformer Oil			A	A	A	A	C	A	B		A	A	A		A	D	B	A	D					
Tributyl Phosphate	$(C_4H_4)_3PO_4$		D	D	C	A			A		A			D	D	A	D	D	D					
Trichloroacetic Acid	CCl_3COOH	1.6	A	A	C	A			D		A				D	D	D	D	D		D	D		
Trichloroethane	$C_2H_3Cl_3$										A	A			A	D	D	D			A	C	A	A
Trichloroethylene	$ClCH=CCl_2$	1.1	D	D	B	A	D	D	D		A	C	D	D	A	D	D	C	D		A	C	B	
Trichloropropane		1.3888							A		A	C			A		C	A			A			
Tricresyl Phosphate			D					A			A	A			B	A	D	D			A		B	A
Triethanolamine			B		C	C						B			D	A							
Triethyl Phosphate			A	A	A	A			D		A				A	A					A	A		
Triethylamine			A	A	D	C			A			C			A		C	A						
Trimethylpropane			A	A	A	A					A													
Trisodium Phosphate			A	A	A	A	A	A	C		A	A	B		A	A	A	A	A		A	A		
Turbine Oil			A	A	B						A				A	D	D	B	D					
Turpentine*	$C_{10}H_{16}$	0.9	C	A	B	A	D	D	A		A	B		C	A	C	D	C	D		A	A		A
Urea*	$CO(NH_2)_2$	1.3	A	A	A	A	C	A	A		A	A	A		A	A	A	C	A					
Urine			A	A	A	A	A	A	A		A	A			A	A	D	A			A	A		
Vanilla Extract*					A		C	A			A													
Varnish					A	A					A	A			A	D	D	B	D		A	A		
Vaseline			A	A	A	A					A				A	D	B	A	B					
Vegetable Oil			A	A	A	A					A				A	A	D	A			A			

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Vinegar			A	A	A	A	A	A	A	A	A	A	B	A	A	B	C	B	A	A	A	A
Vinyl Acetate		0.9345	D	D		A					A	B	D	D	B	C	D	C				
Vinyl Chloride	CH_2CHCL										A			A	C	A	D	D				
Vinyl Ether	$CH_2CHOCH : CH_2$	0.769									A			D			B	B				
Water Acid Mine			A	A	A	A		A	A	A	A			A	A	C	A	A	A	A		
Water Delonized			A	A	A	A	A	A	C	A	A	A		A	A	A	A	A	A	A		
Water Demineralized			A	A	A	A			A		A	A		A	A		A					
Water Distilled			A	A	A	A		A	A	A	A	A		A	A	C	A	A	A	A		
Water Potable	H_2O		A	A	A	A			A	A	A	A		A	A	A	A		A	A		
Water Salt			A	A	A	A			A	A	A	A		A	A	A	A		A	A		
Water Sewage			A	A	A	A			A	A				A	A		A					
Weed Killers											A			A		C	B		A	A		
Whey											A			A			A		A	A		
Whiskey		0.9	A	A	A	A	C	A	A	A	A			A	A	A	A	A	A	A		
White Acid						A				A												
White Liquor			A	A	A	A			A	A	C	B		A	A	A	B		A	A		A
Wines			A	A	A	A	A	A	A	A	A			A	A	A	A	A	A	A		
Xenon	XE									A				A	A	A	A	A				
Xylene*	$C_6H_4(CH_3)_3$	0.9	D	D	D	A	C	C	B	A	C	D	D	B	D	D	D	D	A	A		A
Xylol			D	D	D	A				A	D			A	D	D	C	D				
Yeast					A	A	A	A		A	A			A	A	A						
Zeolite										A				A	A	C	B	A				
Zinc Acetate			A	A	A	A				A	A	A		C	A	B	B	C				
Zinc Carbonate	$ZnCO_3$									A				A			A	A				
Zinc Chloride	$ZnCl_2$	2.9	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	C	A	C
Zinc Chromate										A								C				
Zinc Nitrate			A	A	A	A				A				A	A							
Zinc Phosphate	$Zn_3(PO_4)_2$										A	A										
Zinc Salts					A	A	A	A		A	A			A	A	A	A	A				
Zinc Sulfate	$ZnSO_4 \bullet 7H_2O$	2.0	A	A	A	A	B	A	A	A	A	A		A	A	A	A	A	A	A	A	B
Zirlite										A				C	A	A	B	B				

*These chemicals can cause stress-cracking of LDPE and HDPE under certain conditions. Rotomolded tanks are essentially stress-free and are not usually affected by stress-cracking chemicals. However, these chemicals may affect the service life of tanks with welded fittings or seams, and unsupported tanks operating under heavy loads. Use XLPE tanks which have excellent environmental stress-crack resistance.

A = Excellent, No Effect **B** = Good, Minor Effect **C** = Fair, Data Not Conclusive, Testing Recommended **D** = Not Recommended

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