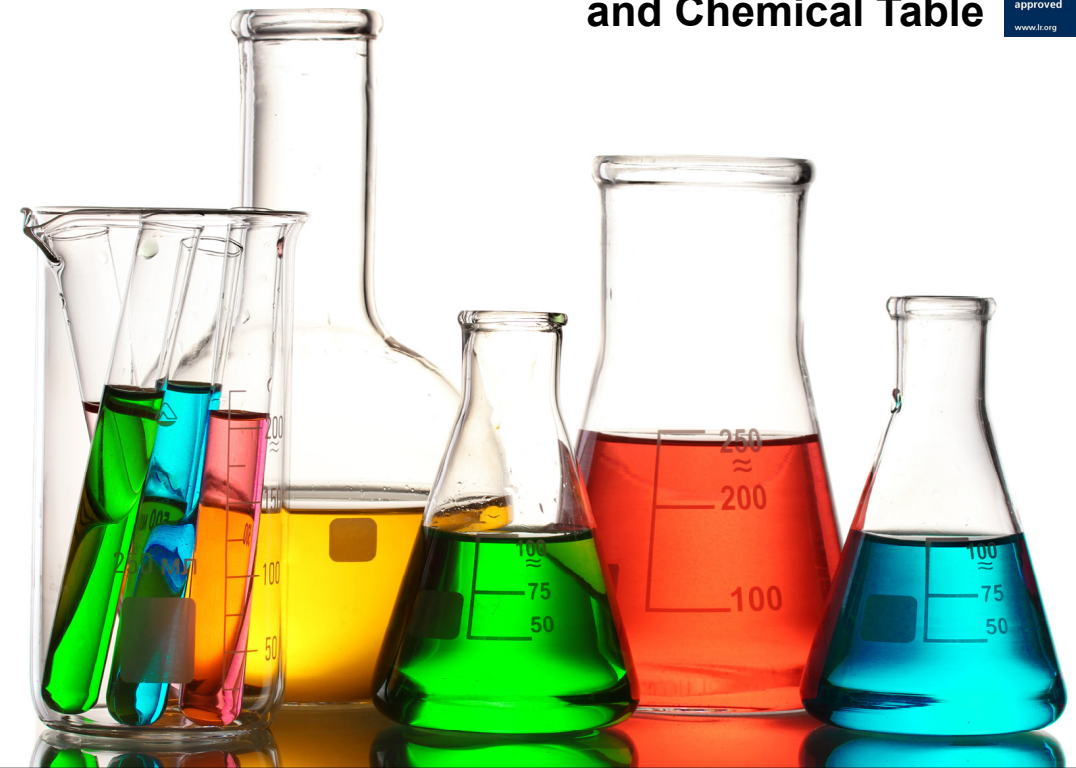


# COMPOTEC®

## Composite Hose and Chemical Table



Rev. 1/14

**WARNING!** The following data is based on tests and believed to be reliable; however, the tabulation should be used as a guide **ONLY**, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc., that may be encountered in actual use. All critical applications should be tested.

Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	Polypropylene Liner	Ptfe	Insert Stems	Carbon Steel	Stainless Steel	NBR	Viton	
A = Suitable for use 60°C								
B = Suitable for use AMBIENT Temperat.								
C = Suitable INTERMITTENT serv. only								
F = Unsuitable - NOT RECOMMENDED								
= No Data (contact Matec)								
Monoisopropanolamine	F	B	B	B	F	B	F	
Monitrobenzene	B	B	B	A	B	A		
Morpholine	C	B	B	A	C	A	F	
Naptha	B	B	B	A	B	A	A	
Naptha Solvent	C	C	C	A	C	A	A	
Napthalene Solution	A	A	A	A	A	F	A	
Neohexane	B	B	B	B	B	A	A	
Nickel Chloride	F	A	C	B	F	B	A	
Nickel Salts	F	A	B	B	F	B	A	
Nitric Acid (>60%)	F	F	F	C	F	C	F	
Nitric Acid (10%)	F	A	A	A	F	A	F	
Nitric Acid (60%)	F	C	C	C	F	C	F	
Nitrobenzene	B	B	B	A	B	A	F	
Nitropropane	C	C	C	A	C	A	F	
Nitrotoluene	B	B	B	A	B	A	C	
Nonane	B	B	B	A	B	A	A	
Nonyl Alcohol	B	B	B	A	B	A	A	
Nonyl Phenol	C	B	B	A	C	A		
Octane	B	B	B	A	B	A	A	
Octanol	B	B	B	A	B	A	B	
Octyl Acetate	C	C	C	A	C	A	F	
Octyl Acrylate	B	B	B	A	B	A		
Octyl Carbinol	B	B	B	A	B	A	A	
Oils	B	B	B	A	B	A	A	
Oleic Acid	F	B	B	A	F	A	B	
Oleum	F	F	F	B	F	B	F	
O-Nitrophenol Solution	F	A	A	A	F	A	C	
Oxalic Acid	F	B	B	A	F	A	B	
Palm Oil	B	B	B	A	B	A	A	
Parrafin Wax	A	A	A	A	A	A	A	
Pentane	B	B	B	A	B	A	A	
Pentanol	A	A	A	A	A	A	B	
Pentanone	B	B	B	A	B	A	F	
Pentene	B	B	B	A	B	A	B	
Perchloroethylene	C	C	C	A	C	A	C	
Perchloric Acid	F	B	F	F	F	F	A	
Petrolatum	A	A	A	A	A	A	A	
Petroleum	A	A	A	A	A	A	A	
Petroleum Ether	C	C	C	A	C	A	A	
Petroleum Naptha	C	C	C	A	C	A	A	
Phenol	B	A	A	A	B	A	F	
Phenoxyethanol	C	C	C	B	C	B		
Phenylhydrazine	F	C	C	B	F	B		
Phosphoric Acid	F	A	A	A	F	A	C	
Phosphorus	F	F	F	F	F	F		
Phosphorus Oxychloride	F	C	F	F	F	F	A	
Phosphorus Pentoxide	F	A	B	B	F	B		
Phosphorus Trichloride	F	B	A	A	F	A	F	
Phthalic Acid	F	B	B	B	F	B		
Phthalic Anhydride	F	F	F	F	F	F		
Picric Acid	F	B	B	B	F	B	C	
Pine Oil	B	B	B	A	B	A	C	
Pinene	B	B	B	A	B	A	A	
Plasticisers	B	B	B	A	B	A		
Polyethylene Glycol	B	B	B	A	B	A	A	
Polyethylene Polyamines	F	C	C	A	F	A	A	
Polypropylene Glycol	B	B	B	A	B	A	A	
Potassium Salts	F	A	B	A	F	A	A	
Propionaldehyde	F	C	C	A	F	A	C	
Propionic Acid	F	B	B	A	F	A	C	
Propionic Anhydride	F	C	C	B	F	B		
Propionitrile	C	C	C	C	C	F	F	
Propyl Acetate	C	C	C	A	C	A	F	
Propyl Alcohol	A	A	A	A	A	A	A	
Propylamine	F	B	B	A	F	A	C	
Propylene Glycol	A	A	A	A	A	A	A	
Propylene Oxide	F	B	B	B	F	B	F	
Prussic Acid	F	A	A	A	F	A		
Pyridine	F	B	B	A	F	A	F	
Pyrosulphuric Acid	F	F	F	B	F	B	C	
Salt Solution	F	A	B	A	F	A	A	
Sea Water	F	A	B	B	F	B	A	

Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	Polypropylene Liner	Ptfe	Insert Stems	Carbon Steel	Stainless Steel	NBR	Viton	
A = Suitable for use 60°C								
B = Suitable for use AMBIENT Temperat.								
C = Suitable INTERMITTENT serv. only								
F = Unsuitable - NOT RECOMMENDED								
= No Data (contact Matec)								
Sewage	F	B	B	B	F	B	A	
Silicon Oil	A	A	A	A	A	A	A	
Silver Halides	F	A	F	F	F	F	C	
Silver Salts	F	A	B	B	F	B	A	
Soap Solution	B	A	A	A	B	A	A	
Sodium Chloride	F	A	F	F	F	F	A	
Sodium Dichromate	F	B	F	F	F	F	C	
Sodium Hydrosulfide	F	A	B	B	F	B	C	
Sodium Hydroxide	F	A	B	B	F	B	C	
Sodium Hypochlorite	F	C	F	F	F	F	A	
Sodium Salts	F	A	B	B	F	B	A	
Sodium Thiosulfate	F	A	B	B	F	B	A	
Starch(aqueous)	B	A	A	A	B	A	A	
Styrene Monomer	B	B	B	A	B	A	F	
Sugar Syrup	A	A	A	A	A	A	A	
Sulphamic Acid	F	A	A	A	F	A	B	
Sulpher Dioxide	F	C	C	C	F	C	C	
Sulpher Liquid	F	F	F	F	F	F	B	
Sulphuric Acid (<20%)	F	B	C	B	F	B	B	
Sulphuric Acid (>85%)	F	C	C	B	F	B	F	
Sulphuric Acid (20%-80%)	F	B	F	C	F	C	F	
Sulphurous Acid	F	B	B	C	F	B	C	
Sulphuryl Chloride	F	F	F	F	F	F	C	
Tall Oil	A	A	A	A	A	A	A	
Tallow	A	A	A	A	A	A	A	
Tannic Acid	F	A	A	A	F	A	C	
Tartaric Acid	F	A	B	A	F	A	C	
Tetrachloroethane	C	C	C	A	C	A	F	
Tetrachloroethylene	C	C	C	A	C	A	F	
Tetraethylene Glycol	B	B	B	A	B	A	A	
Tetrahydrofuran	F	C	B	A	F	A	F	
Tetrahydronapthalene	C	C	C	A	C	A		
Tetrathylene Pentamine	F	B	B	B	F	B		
Thionyl Chloride	F	F	F	C	F	C		
Tin Halides	F	A	F	F	F	F	A	
Tin Salts	F	A	B	F	F	F	A	
Titanium Tetrachloride	F	C	F	F	F	F	B	
Toluene	C	C	C	A	C	A	C	
Toluene Diisocyanate	B	B	B	A	B	A	C	
Transmission Oil	B	B	B	A	B	A	B	
Tributyl Phosphate	B	B	B	A	B	A	F	
Tributylamine	B	B	B	A	B	A	B	
Trichloroacetic Acid	F	A	B	B	F	B	C	
Trichlorobenzene	F	C	C	A	F	A	F	
Trichloroethane	C	C	C	A	C	A	F	
Trichloropropane	C	C	C	A	C	A	F	
Tricresyl Phosphate	B	B	B	A	B	A	F	
Tridecanol	B	B	B	A	B	A	B	
Triethylamine	F	B	B	B	F	B	A	
Triethylbenzene	B	B	B	A	B	A		
Triethylene Glycol	A	A	A	A	A	A	A	
Triethylene Tetramine	F	B	B	A	F	A		
Trimethyl Acetic Acid	F	A	A	A	F	A		
Trimethyl Benzene	B	B	B	A	B	A	B	
Triocetyl Phosphate	B	B	B	A	B	A	F	
Trithanolamine	F	B	B	A	F	A		
Tritolyl Phosphate	B	B	B	A	B	A	F	
Turpentine	C	C	C	A	C	A	B	
Urea/AmmoniumSalt Solution	B	A	B	A	B	A	A	
Valeraldehyde	C	C	C	A	C	A	C	
Vaseline	A	A	A	A	A	A	A	
Vinegar	F	A	A	A	F	A	C	
Vinyl Acetate	F	B	B	A	F	A	F	
Vinyl Ethyl Ether	C	C	C	A	C	A		
Vinyl Toluene	B	B	B	A	B	A	F	
Vinylidene Chloride	C	C	C	A	C	A	F	
White Spirits	B	B	B	B	B	A	A	
Wine	F	B	B	A	F	A	A	
Xylene/Xylenol	B	B	B	A	B	A	C	
Yeast(aqueous)	F	A	A	A	F	A	A	
Zinc Halides	F	A	F	F	F	F	A	
Zinc Salts	F	A	B	B	F	B	A	

Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	Polypropylene Liner	Ptfe	Insert Stem	Carbon Steel	Stainless Steel	NBR	Viton	
A = Suitable for use 60°C								
B = Suitable for use AMBIENT Temperatures								
C = Suitable for INTERMITTENT service only								
F = Unsuitable - NOT RECOMMENDED								
= No Data (contact Matec)								
1,3-Pentadiene	C	C	C	A	C	A		
2-Ethylhexylamine	C	B	B	A	C	A		
2-Ethyl-3-Propylacrolein	C	C	C	A	C	A		
2-Hydroxyethyl Acrylate	C	C	C	B	C	B		
2-Methyl Pentene	C	C	C	A	C	A		
Acetaldehyde 100%	F	C	C	A	F	A	F	
Acetaldehyde 40%	F	B	B	A	F	A	F	
Acetic Acid 60%	F	A	A	A	F	A	F	
Acetic Acid, Glacial	F	B	B	A	F	A	F	
Acetic Anhydride	F	B	B	A	F	A	F	
Acetoacetic Ester	F	B	B	A	F	A	F	
Acetone	A	A	A	A	A	F	F	
Acetone Cyanohydrin	F	B	B	A	F	A	F	
Acetonitrile	B	B	B	A	B	A	C	
Acetophenone	B	B	B	A	B	A	F	
Acetyl Chloride	F	F	F	A	F	F	B	
Acetylacetone	B	B	B	A	B	A	C	
Acetylene Dichloride	B	B	B	A	B	A	A	
Acrolein (Acrylaidenhyde)	B	B	B	A	B	A	B	
Acrylamide (<50%)	F	C	C	B	F	B		
Acrylic Acid	F	B	B	B	F	B	B	
Acrylonitrile	F	A	A	A	F	A	F	
Adipic Acid (Aqueous)	A	A	A	A	A	A	A	
Adiponitrile	B	B	B	A	B	A		
Allyl Alcohol	A	A	A	A	A	A	B	
Allyl Bromide	C	C	C	A	C	A	F	
Allyl Chloride	C	C	C	B	C	B	F	
Aluminum Salt Solutions	F	A	B	A	F	A	A	

Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	Polypropylene Liner	Ptfe	Insert Stems	Carbon Steel	Stainless Steel	NBR	Viton	
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Chemical or Material Conveyed	Hose Inner Wire		Coupl. Mat.		Seal Mat.	
	Polypropylene Liner	Ptfe	Insert Stems		NBR	Viton
A = Suitable for use 60°C						
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= No Data (contact Matec)						
Bleach ( 12,5% CL)	F	B	C	B	F	B
Borax (Aqueous)	A	A	A	A	A	A
Boric Acid	F	A	A	A	F	A
Brine	F	A	C	F	F	A
Butadiene	B	B	B	B	B	F
Butanol	B	B	B	A	B	A
Butyl Acetate	C	C	C	B	C	F
Butyl Alcohol	A	A	A	A	A	A
Butyl Benzene	B	B	B	B	B	F
Butyl Carbitol Acetate	C	C	C	B	C	B
Butylamine	F	B	B	B	F	C
Butyric Acid	B	B	B	A	B	C
Calcium Acetate	B	B	B	B	B	F
Calcium Alkyl Salicylate	F	A	A	A	F	A
Calcium Carbonate	F	A	A	A	F	A
Calcium Chloride	F	A	C	C	F	C
Calcium Hydroxide	F	A	A	A	F	A
Calcium Hypochlorite	F	B	C	B	F	B
Calcium Nitrate	F	A	A	A	F	A
Camphor Oil	C	C	C	B	C	B
Caprylic Acid	A	A	A	A	A	C
Carbinols	B	B	B	A	B	A
Carbinol Acetate	C	C	C	B	C	B
Carbolic Acid	F	A	A	A	F	A
Carbolic Oils	C	C	C	B	C	B
Carbon Bisulfide	F	B	B	B	F	B
Carbon Disulfide	C	C	C	A	C	A
Carbon Monoxide	F	A	A	A	F	A
Carbon Tetrachloride	C	C	C	B	C	B
Carbonic Acid	F	A	A	A	F	A
Cashew Nutshell Oil	B	B	B	B	B	B
Castor Oil	F	B	B	B	F	B
Caustic Potash (<50%)	F	A	B	A	F	A
Caustic Soda (<50%)	F	A	B	A	F	A
Cellosolve	B	B	B	B	B	F
Cetyl Acid	F	B	B	B	F	B
Chlorinated Solvents	F	B	B	B	F	B
Chlorine (Dry)	F	F	F	A	F	A
Chlorobenzene	C	C	C	A	C	A
Chloroform	C	C	C	A	C	A
Chrome Alum	F	A	A	A	F	A
Chromic Acid Aqueous	F	C	C	A	F	C
Citric Acid	F	A	A	A	F	A
Coal Tar Naptha	F	B	B	A	F	A
Copper Chloride	F	A	F	F	F	A
Copper Nitrate	F	A	A	A	F	A
Creosote	B	B	B	A	B	A
Crotonaldehyde	C	C	C	B	C	B
Crude Oil	A	A	A	A	A	A
Cumene	B	B	B	A	B	A
Cyclohexane	B	B	B	B	B	B
Cyclohexylamine	F	B	B	A	F	A
Cyclotane	B	B	B	A	B	A
Decanol	B	B	B	B	B	B
Decyl Alcohol	B	B	B	B	B	A
Decylbutyl Phthalate	B	B	B	B	B	F
Detergents (2%)	A	A	A	A	A	A
Dextrin	A	A	A	A	A	A
Diacetone Alcohol	B	B	B	A	B	A
Diaminoethylamine	C	B	B	A	C	A
Diamylamine	C	B	B	A	C	A
Dibromoethane	F	B	B	A	F	A
Dibutyl Ether	C	C	C	B	C	B
Dibutyl Phthalate	B	B	B	A	B	A
Dibutylamine	C	B	B	A	C	A
Dichloroacetic Acid	F	C	F	F	F	F
Dichlorobenzene	C	C	C	B	C	B
Dichlorobutane	C	C	C	A	C	A
Dichloroethane	C	C	C	B	C	B
Dichloroethyl Ether	C	C	C	A	C	A
Dichloroethylene	C	C	C	B	C	B
Dichloropropane	C	C	C	B	C	B
Dichloropropylene	C	C	C	B	C	B

Chemical or Material Conveyed	Hose Inner Wire		Coupl. Mat.		Seal Mat.	
	Polypropylene Liner	Ptfe	Insert Stems		NBR	Viton
A = Suitable for use 60°C						
B = Suitable for use AMBIENT Temperat.						
C = Suitable INTERMITTENT serv. only						
F = Unsuitable - NOT RECOMMENDED						
= No Data (contact Matec)						
Diethylbenzene	B	B	B	A	B	A
Diesel Oil	B	B	B	B	B	A
Diethanolamine	F	A	A	A	F	A
Diethyl Sulphate	F	A	B	A	F	A
Diethylamine	F	B	B	A	F	A
Diethylaminoethanol	C	B	B	A	C	A
Diethylene Dioxide	C	B	B	A	C	A
Diethylene Glycol Diethyl Ether	B	B	B	A	B	A
Diethylene Glycol	A	A	A	A	A	A
Diisobutyl Ketone	B	B	B	A	B	A
Diisobutylamine	B	B	B	B	B	B
Diisobutylene	C	C	C	B	C	B
Diisooctyl Adipate	B	B	B	A	B	A
Diisooctyl Phthalate	A	A	A	A	A	F
Diisopropanolamine	F	B	B	A	F	A
Diisopropylether	B	B	B	A	B	A
Dimethyl Ethanolamine	F	B	B	A	F	A
Dimethyl Formamide	A	A	A	A	A	C
Dimethyl Hydrogen Phosphite	F	C	C	B	F	B
Dimethyl Ketone	A	A	A	A	A	F
Dimethyl Phthalate	B	B	B	A	B	A
Dimethyl Sulphate	F	B	B	A	F	A
Dimethyl Sulphide	B	B	B	A	B	A
Dimethylamine	F	B	B	A	F	A
Dimethylcyclohexylamine	F	B	B	B	F	B
Dinitrobenzene	C	C	C	A	C	A
Dioctyl Phthalate	B	B	B	A	B	A
Dioctyl Sebacate	B	B	B	A	B	A
Dioctylamine	C	B	B	A	B	A
Dioxane	B	B	B	A	C	A
Dipentene	B	B	B	A	B	A
Diphenyl Ether	B	B	B	A	B	A
Diphenyl Phthalate	B	B	B	A	B	A
Dipropylamine	B	B	B	A	B	A
Dipropylene Glycol	A	A	A	A	A	A
Disulphuric Acid	F	F	F	C	F	C
Dodecyl Alcohol	B	B	B	A	B	A
Dodecyl Benzene	B	B	B	B	B	F
Dodecyl Phenol	B	B	B	B	B	B
Dodecyltoluene	B	B	B	B	B	F
Emulsifiers	F	A	A	A	F	A
Epichlorohydrin	B	B	B	A	B	A
Ethanoic Acid	F	B	B	A	F	A
Ethanolamine	B	A	A	A	B	A
Ethoxy Ethanol	C	C	C	B	C	B
Ethoxy Ethyl Acetate	C	C	C	A	C	A
Ethoxy Propanol	C	C	C	B	C	B
Ethyl Acetate	C	C	C	A	C	A
Ethyl Acrylate	B	B	B	A	B	A
Ethyl Alcohol	A	A	A	A	A	A
Ethyl Aluminum Dichloride	F	F	F	C	F	C
Ethyl Butanol	B	B	B	A	B	A
Ethyl Butylamine	C	B	B	B	C	B
Ethyl Chloride	C	C	C	A	C	A
Ethyl Cyclohexane	C	C	C	A	C	A
Ethyl Cyclohexylamine	C	C	C	B	C	B
Ethyl Ether	F	C	C	A	F	A
Ethyl Formate	F	B	B	A	F	A
Ethyl Iodide	C	C	C	B	C	B
Ethyl Isobutyl Ether	F	B	B	A	F	A
Ethyl Methacrylate	C	C	C	A	C	A
Ethyl Methyl Ketone	B	B	B	B	B	F
Ethyl Phthalate	A	A	A	A	A	F
Ethyl Silicate	A	A	A	A	A	A
Ethyl Sulphate	B	B	B	A	B	A
Ethyl Vinyl Ether	B	B	B	A	B	A
Ethylamine	C	B	B	A	C	A
Ethylbenzene	B	B	B	A	B	A
Ethylene Carbonate	C	B	B	A	C	A
Ethylene Chloride	C	C	C	A	C	A
Ethylene Chlorohydrin	B	B	B	A	B	A
Ethylene Cyanhydrin	F	C	C	A	F	A
Ethylene Diamine	B	B	B	A	B	A

Chemical or Material Conveyed	Hose Inner Wire		Coupl. Mat.		Seal Mat.	
	Polypropylene Liner	Ptfe	Insert Stems		NBR	Viton
A = Suitable for use 60°C						
B = Suitable for use AMBIENT Temperat.						
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F = Unsuitable - NOT RECOMMENDED						
= No Data (contact Matec)						
Ethylene Dibromide	C	B	B	A	C	A
Ethylene Dichloride	C	C	C	A	C	A
Ethylene Glycol	A	A	A	A	A	A
Ethylene Oxide	F	B	B	A	F	A
Ethylhexanoic Acid	F	B	B	B	F	B
Ethylhexyl Acrylate	F	B	B	A	F	A
Ethylhexyl Alcohol	A	A	A	A	A	A
Ethylpropyl Ether	B	B	B	A	B	A
Ethylpropyl Ketone	C	C	C	A	C	A
Fatty Acids	F	A	A	A	F	A
Fatty Alcohols	A	A	A	A	A	A
Ferric Salts	F	A	B	B	F	B
Fluosilicic Acid	F	A	A	A	F	A
Formaldehyde Solutions	A	A	A	A	A	A
Formamide	F	A	B	A	F	A
Formic Acid	F	A	B	A	F	A
Fruit Juices	F	A	A	F	F	A
Fuel Oils	B	B	B	A	B	A
Furfural	C	C	C	A	C	A
Furfuryl Alcohol	C	C	C	A	C	A
Gallic Acid Solution	C	A	A	A	C	A
Gasoline	B	B	B	A	B	A
Gelatine (aqueous)	A	A	A	A	A	A
Gluconic Acid	C	A	A	A	C	A
Glucose (aqueous)	A	A	A	A	A	A
Glycerine	A	A	A	A	A	A
Glycolic acid (aqueous)	F	A	A	A	F	A
Glycols (aqueous)	A	A	A	A	A	A
Grease	B	B	B	A	B	A
Green Sulphate Liquor	F	B	B	B	F	B
Heptane	B	B	B	A	B	A
Heptanol	A	A	A	A	A	A
Heptanone	B	B	B	A	B	A
Heptene	B	B	B	A	B	A
Heptonic Acid	F	B	B	A	F	A
Hexamethylene Diamine	F	B	B	A	F	A
Hexamethylene Tetramine	F	B	B	A	F	A
Hexamethyleneimine	F	C	C	B	F	B
Hexane	B	B	B	A	B	A
Hexanol	A	A	A	A	A	A
Hexene	B	B	B	B	B	B
Hexylamine	F	B	B	A	F	A
Hexylene Glycol	A	A	A	A	A	A
Hydrazine Hydrate	F	B	B	A	F	A
Hydrobromic Acid	F	A	F	F	F	C
Hydrochloric Acid	F	C	F	F	F	F
Hydrofluoric Acid	F	B	F	F	F	F
Hydrofluosilicic Acid	F	A	A	A	F	A
Hydrogen Peroxide Solut.	F	B	B	B	F	B
Hydrogen Sulfide (aqueo)	F	A	F	F	F	F
Hydroquinone	A	A	A	A	A	F
Iodine Solution	F	B	F	F	F	C
Iron Salts	F	A	F	A	F	A
Isoamyl Acetate	C	C	C	A	C	A
Isoamyl Alcohol	B	B	B	A	B	A
Isoamyl Bromide	F	B	F	F	F	B
Isoamyl Butyrate	B	B	B	A	B	A
Isoamyl Chloride	F	C	C	B	F	B
Isoamyl Ether	B	B	B	A	B	A
Isobutraldehyde	F	F	C	B	F	C
Isobutyl Acetate	C	C	C	B	C	B
Isobutyl Acrylate	B	B	B</			