



POLYETHYLENE - CHEMICAL COMPATIBILITY GUIDE #4

Y = YES, RECOMMENDED

S = SOMETIMES, SUITABLE INTERMITTENTLY

N = NO, NOT RECOMMENDED

CHEMICAL RATING

Acetaldehyde (40%)	Y
Acetamide	Y
Acetic Acid (50%)	Y
Acetic Acid (100%)	N
Acetic Acid Anhydride	S
Acetic Ether	S
Acetone	Y
Acetylene Tetrabromide	S
Acrylic Emulsions	S
Acrylonitrile	Y
Adipic Acid	Y
Aliphatic Hydrocarbons (Hexane Octane, hexene, Octene, Etc.)	Y
Allyl Alcohol (96%)	Y
Alum (Aqueous Solutions)	Y
Aluminum Chloride (20%)	Y
Aluminum Fluoride	Y
Aluminum Hydrogen Solution (10%)	Y
Aluminum Hydroxide	Y
Alums (All Types)	Y
Ammonia (Anhydrous)	Y
Ammonia (Aqueous)	Y
Ammonia (100% Dry Gas)	Y
Ammonium Salts	Y
Ammonium Acetate	Y
Ammonium Bifluoride	Y
Ammonium Carbonate 50%	Y
Ammonium Chloride	Y
Ammonium Hydrogen Fluoride (50%)	Y
Ammonium Hydroxide	Y
Ammonium Metaphosphate Sat'd	Y
Ammonium Nitrate (10%)	Y
Ammonium Nitrate Sat'd	Y
Ammonium Persulfate Sat'd	Y
Ammonium Phosphate	Y
Ammonium Sulfate (1%)	Y
Ammonium Sulfate Sat'd	Y
Ammonium Sulfide Sat'd	Y
Ammonium Thiocyanate Sat'd	Y
Amyl Acetate	Y
Amyl Alcohol (100%)	Y
Amyl Chloride	N
Aniline (100%)	S
Aniline Hydrochloride	S
Animal Fats	Y
Anti-Freeze	Y
Antimony Salts	Y
Antimony Trichloride 90%	Y
Aqua Regia	N
Aqueous Salt Solutions (NaCl)	Y
Aqueous Alkalies (NaOH)	Y
Arsenic Acid	Y
Arsenic Salts	Y
Barium Salts	Y
Barium Carbonate	Y
Barium Chloride	Y
Barium Cyanide	Y
Barium Hydroxide	Y
Barium Nitrate	Y
Barium Sulfate	Y
Barium Sulfide	Y
Battery Fluid Acid	S
Beef Tallow Emulsion, Sulfonated	Y
Beer	Y
Benzaldehyde	Y
Benzene	Y
Benzene Sulfonic Acid	S
Benzoic Acid	Y
Benzyl Alcohol	Y
Benzyl Chloroformate	Y
Bismuth Salts	Y
Bleach Lye (10%)	S
Black Liquor	Y
Borax Cold Sat'd	Y
Boric Acid Dilute	Y
Boric Acid Conc.	Y

Bromine, Liquid	N
Bromine, Water	N
Bromobenzene	N
Bromoform	N
Butadiene	Y
Butane	Y
Butanediol (100%)	Y
Butanol	Y
Butyl Acetate	Y
Butyl Alcohol (100%)	Y
Butylene	N
Butylene Glycol	Y
Butylene Liquid	N
Butyl Phenol	N
Butyric Acid	Y
Calcium Carbonate	Y
Calcium Chloride	Y
Calcium Hydroxide	Y
Calcium Hypochlorite	Y
Calcium Nitrate (50%)	Y
Calcium Sulfate	Y
Camphor Oil	N
Carbon Disulfide	N
Carbonic Acid (Aq.CO2)	Y
Carbon Monoxide	Y
Carbon Tetrachloride	N
Castor Oil Conc.	Y
Caustic (Aqueous)	Y
Caustic Potash Sol. (50%)	Y
Caustic Soda Sol. (10%)	Y
Chloral Hydrate	Y
Chloroethanol	Y
Chloric Acid (10%)	Y
Chloroacetic Acid	Y
Chlorobenzene	Y
Chloroform	N
Chloromethane	N
Chlorosulfonic Acid 100%	N
Chrome Alum Sat'd	Y
Chromic Acid (50%)	S
Cider	Y
Citric Acid (All Conc.)	Y
Clorox Bleach	Y
Coconut Oil Alcohols	Y
Cola Concentrates	Y
Compressed Air Conditioning Oil	Y
Copper Salts	Y
Copper Cyanide	Y
Copper Nitrate	Y
Copper Sulfate	Y
Corn Oil	Y
Cottonseed Oil	Y
Cresol (90%)	Y
Cresylic Acid	Y
Crotonic Aldehyde	Y
Cuprous Chloride Sat'd	Y
Cyclohexane	Y
Cyclohexanol	Y
Cyclohexanone	S
Aniline (100%)	S
Detergents, General	Y
Developer, Photographic	Y
Dextrin Sat'd	Y
Dextrose Sat'd	Y
Dibutyl Ether	N
Dibutylphthalate	S
Dibutyl Sebacate	S
Dichloroacetic Acid	S
Dichloroacetic Acid, Methyl Ester	S
Dichlorobenzene, Liquid	N
Dichloroethylene	N
Diesel Fuel	S
Diesel Oil	S
Diethyl Carbonate	Y
Disodium Phosphate	Y
Diazo Salts	Y
Diethylene Glycol	Y
Diethanolamine	S
Diglycolic Acid (30%)	Y
Di-Isobutyl Ketone	S
Dimethylamine	S
Dimethyl Formamide	S
Dinonyl Phthalate	N
Dioctyl Phthalate	N
Dioxane	Y
Diphenyl Oxide	N
Electrolyte	Y
Emulsions, Photographic	Y
Ethanol	Y
Ether	N
Ethyl Acetate (100%)	S
Ethyl Alcohol	Y
Ethyl Butyrate	S
Ethyl Chloride	N

Ethyl Ether	N
Ethylene Chloride	N
Ethylene Chlorohydrin	Y
Ethylene Diamine	Y
Ethylene Dichloride	N
Ethylene Glycol	Y
Ethylene Oxide	N
Fatty Acids	Y
Fatty Alcohol Sulfonate	Y
Ferric Salts	Y
Ferric Sulfate	Y
Ferrous Salts	Y
Ferrous Sulfate	Y
Fertilizer Salts	N
Fish Solubles	Y
Fluoboric Acid	Y
Fluosilicic Acid (All Conc.)	Y
Formaldehyde (40%)	Y
Formamide	Y
Formic Acid (All Conc.)	Y
Fruit Pulp	Y
Fuel Oil	Y
Furfural (100%)	Y
Furfuryl Alcohol	N
Gallic Acid Sat'd	Y
Gasoline	Y
Gasohol	Y
Gelatine	Y
Gin	Y
Gluconic Acid (All Conc.)	Y
Glucose	Y
Glycerine	Y
Glycol	Y
Glycol Ethers	Y
Glycolic Acid (All Conc.)	Y
Grape Sugar Sat'd Aq.	Y
Heptane	Y
Hexane	Y
Hexanol Tert	Y
Hydrazine Hydrate	Y
Hydroxylite (10%)	Y
Hydroxylamine Sulfate	Y
Hydrazine (35%)	Y
Hydrazine Hydrochloride	Y
Hydroiodic Acid (All Conc.)	Y
Hydrobromic Acid (50%)	Y
Hydrocyanic Acid Sat'd	Y
Hydrochloric Acid (All Conc.)	Y
Hydrofluoric Acid (All Conc.)	Y
Hydrofluoroisilicic Acid (All Conc.)	Y
Hydrogen Bromide (10%)	Y
Hydrogen Peroxide (90%)	Y
Hydrogen Phosphide 100%	Y
Hydroquinone	Y
Hydrogen Sulfide	Y
Hypochlorous Acid	Y
Inks	Y
Iodine (Alc. Sol.) Conc.	Y
Iron Salts	Y
Iso-Octane	S
Isopropyl Acetate	Y
Isopropyl Alcohol	Y
Isopropyl Ether	N
Jet fuel	S
Kerosene	S
Lactic Acid (All Conc.)	Y
Lanolin	Y
Latex	Y
Lead Salts	Y
Lead Acetate Sat'd	Y
Lime	Y
Linseed Oil	Y
Lithium Salts	Y
Lube Oil	Y
Magnesium Salts	Y
Magnesium Carbonate	Y
Magnesium Hydroxide	Y
Magnesium Nitrate	Y
Magnesium Oxide	Y
Magnesium Sulfate	Y
Maleic Acid	Y
Malic Acid (1%)	Y
Mercuric Salts	Y
Mercurous Salts	Y
Mercury	Y
Methanol	Y
Methyl Acetate	Y
Methyl Alcohol (100%)	Y
Methyl Amine (32%) L	Y
Methyl Bromide	N
Methyl Chloride	N
Methylene Chloride	N
Methyl Ethyl Ketone	S

Methyl Isobutyl Ketone	S
Methyl Isopropyl ketone	S
Methyl Sulfate	Y
Methyl Sulfuric Acid (All Conc.)	Y
Milk	Y
Mineral Oils	Y
Molasses	Y
Monochloroacetic Acid Ethyl Ester	Y
Monochloroacetic Acid Methyl Ester	Y
Morpholin	Y
Mowilith D	Y
Muriatic Acid	Y
Naptha	S
Naphthalene	S
Nickel Salts	Y
Nicotine, Dilute	Y
Nicotinic Acid	Y
Nitric Acid (<50%)	Y
Nitrobenzene	S
Nitrotoluene	S
Octyl Cresol	Y
Oils and Fats	Y
Oleic Acid (All Conc.)	Y
Oleum Conc.	N
Olive Oil	Y
Orange Extract	Y
Oxalic Acid (All Conc.)	Y
Palmitic Acid	N
Palm Oil	S
Paraffin Emulsions	Y
Paraffin Oil	Y
Perchloric Acid (50%)	Y
Perchloroethylene	N
Petroleum	Y
Petroleum Ether	S
Phenol (90%)	N
Phenylhydrazine	N
Phosphoric Acid All Conc	Y
Phosphorous Chlorides	S
Phosphorous Yellow (100%)	Y
Phosphorous Pentoxide	Y
Photographic Solutions	Y
Phthalic Acid (All Conc.)	Y
Phthalic Anhydride	Y
Pickling Baths, Sulfuric Acid,	Y
Hydrochloric Acid	Y
Picric Acid (1%)	Y
Plating Solutions	Y
Potash	Y
Potassium/Aluminum Sulfates (50%)	Y
Potassium Bichromate	Y
Potassium Borate (10%)	Y
Potassium Bromide	Y
Potassium Chlorate	Y
Potassium Chloride	Y
Potassium Chromate	Y
Potassium Cyanide	Y
Potassium Dichromate 40%	Y
Potassium Ferri/ Ferro Cyanide Sat'd	Y
Potassium Fluoride	Y
Potassium Hydroxide	Y
Potassium Iodide	Y
Potassium Nitrate Sat'd	Y
Potassium Perborate Sat'd	Y
Potassium Perchlorate	Y
Potassium Permanganate	Y
Potassium Persulfate Sat'd	Y
Potassium Phosphates	Y
Potassium Sulfate	Y
Propanol	Y
Propargyl Alcohol (7%)	Y
Propionic Acid (50%)	Y
Propyl Alcohol	Y
Propylene Dichloride (100%)	Y
Propylene Glycol	Y
Propylene Oxide	Y
Pyridine	S
Rayon Coagulation Salts	Y
Rust Inhibitors	Y
Sea Water	Y
Selenic Acid	Y
Sewage	Y
Shortening	Y
Silicic Acid	Y
Silicone Oil	Y
Silver Salts	Y
Silver Nitrate	Y
Soda Solution (All Conc.)	Y
Soda Ash	Y
Sodium Salts	Y
Sodium Acetate Sat'd	Y
Sodium Acrylates	Y
Sodium Benzoate	Y

Sodium Bicarbonate	Y
Sodium Bisulfate (10%)	Y
Sodium Bisulfite	Y
Sodium Bromate	S
Sodium Bromide	Y
Sodium Bromide Dilute Sol.	Y
Sodium Carbonate	Y
Sodium Chlorate	Y
Sodium Chloride	Y
Sodium Chlorite	Y
Sodium Chromate	Y
Sodium Disulfite	Y
Sodium Dithionite (10%)	Y
Sodium Ferricyanide	Y
Sodium Ferrocyanide Sat'd	Y
Sodium Fluoride Sat'd	Y
Sodium Hydroxide Conc.	Y
Sodium Hypochlorite	Y
Sodium Iodide	Y
Sodium Nitrate	Y
Sodium Oxalate	Y
Sodium Persulfate	Y
Sodium Phosphate	Y
Sodium Silicate	Y
Sodium Sulfate	Y
Sodium Sulfide	Y
Sodium Sulfite	Y
Sodium Sulfonates	Y
Sodium Thiosulfate	Y
Spindle Oil	Y
Stannic Salts	Y
Stannous Salts	Y
Starch Solution Sat'd	Y
Stearic Acid (All Conc.)	Y
Succinic Acid	Y
Sugar Solutions, Glucose, Lactose, Sucrose, etc.	Y
Sulfur	Y
Sulfuric Acid (98%)	S
Sulfuric Acid, Fuming	N
Sulfurous Acid	Y
Sulfuryl Chloride	N
Tallow	Y
Tannic Acid	Y
Tanning Extracts	Y
Tartaric Acid Sat'd	Y
Tetrachloroethane	N
Tetrachloroethylene	N
Tetraethyl Lead	Y
Tetrahydrofuran	N
Tetrahydronaphthalene	N
Thionyl Chloride	N
Tin Salts	Y
Titanium Salts	S
Toluene	S
Toluene Sulfonic Acid (All Conc.)	Y
Transformer Oil	Y
Tributylphosphate	Y
Trichloroacetic Acid	S
Trichloroethane	N
Trichloroethylene	N
Tricresyl Phosphate	Y
Triethanolamine	Y
Trioxyl Phosphate	N
Trisodium Phosphate Sat'd	Y
Trichloroethylene	N
Turpentine Oil	N
Urea	Y
Urine	Y
Vegetable Oils	Y
Vinegar	Y
Vanilla Extract	Y
Wax Alcohol	N
Wetting Agents	Y
Whisky	Y
White Acid (75%)	Y
Wine	Y
Xylene	N
Yeast	Y
Zinc Salts	Y
Zinc Sulfate	Y

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