



Polyethylene Terephthalate (PET)-Chemical Compatibility

The data provided below should not be construed as implying a legal guarantee. No claims are made for specific products or for their suitability in a particular application.

Chemical resistance data represents room temperature assessment of the substance in the physical state specified.

When a percentage is indicated--it refers to the concentration of a solution in water, (unless otherwise indicated). The rating methodology is defined as follows:

G = PET exhibits good resistance to attack

F = PET exhibits fair resistance to attack

X = PET exhibits poor resistance, and should not be considered for this application.

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<u>Substance</u>	<u>Physical state or concentration</u>	<u>Suitability</u>
Acetic Acid	1-10%	G
	10-40%	F
	> 40%	X
Acetic Anhydride	pure (liquid)	X
Acetone	pure (liquid)	X
Aliphatic Hydrocarbons	liquid	G
Allyl Alcohol	pure (liquid)	G
Aluminium Sulphate	pure (solid)	G
Ammonia	pure (gas)	X
Ammonium Chloride	pure (solid)	G
Ammonium Hydroxide	>10%	X
Ammonium Persulphate	pure (solid)	G
Ammonium Sulphate	pure (solid)	G
Amyl Acetate	pure (liquid)	F
Amyl Alcohol	pure (liquid)	F
Amyl Methyl Ketone	pure (liquid)	F
Aniline	pure (liquid)	X
Anthraquinone	pure (solid)	G
Aqua Regia	liquid	X
Barium Chloride	pure (solid)	G
Benzene	pure (liquid)	X
Benzoic Acid	pure (solid)	G
Benzyl Acetate	pure (liquid)	X
Benzyl Alcohol	pure (liquid)	X
Benzyl Benzoate	pure (liquid)	F
Bromine	pure (liquid)	X
Butane	pure (liquid)	G
Butyl Acetate	pure (liquid)	X
Butyl Alcohol	pure (liquid)	F
Butyl Lactate	pure (liquid)	G
Butyl Stearate	pure (liquid)	G
Calcium Chloride	10%	G
Calcium Hypochlorite	pure (solid)	G

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<u>Substance</u>	<u>Physical state or concentration</u>	<u>Suitability</u>
Camphor	pure (solid)	G
Carbon Disulphide	pure (liquid)	G
Carbon Tetrachloride	pure (liquid)	G
Cetyl Alcohol	pure (solid)	G
Chloral Hydrate	pure (solid)	X
Chlorobenzene	pure (liquid)	X
Chloroform	pure (liquid)	X
Chromic Acid	1-10%	G
	10-40%	F
	> 40%	X
Citric Acid	10%	G
	pure (solid)	G
Citronellol	pure (liquid)	G
Copper (II) sulphate	pure (solid)	G
Copper (III) sulphate	pure (solid)	G
Cyclohexane	pure (liquid)	G
Cyclohexanol	pure (liquid)	G
Cyclohexanone	pure (liquid)	X
Di (1-Phenyl) Ethanol	pure (solid)	F
Di (3 -Ethylhexyl) Phthalate	pure (liquid)	G
Diacetone Alcohol	pure (liquid)	G
1,3-Dibromoethane	pure (liquid)	X
Dibutyl Phthalate	pure (liquid)	G
Dibutyl Sebacate	pure (liquid)	G
o-Dichlorobenzene	pure (liquid)	X
1,3-Dichloroethane	pure (liquid)	X
Diethyl Ether	pure (liquid)	G
Diethylene Glycol	pure (liquid)	G
Diethylketone	pure (liquid)	X
Dimethyl Formamide	pure (liquid)	X
Dinonyl Phthalate	pure (liquid)	G
Dioctyl Phthalate	pure (liquid)	G
Dioxane	pure (liquid)	X

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<u>Substance</u>	<u>Physical state or concentration</u>	<u>Suitability</u>
Dipentene	pure (liquid)	G
Ethanol	See Ethyl Alcohol	
3-Ethoxy Ethanol	pure (liquid)	G
Ethoxylated Alcohols	pure (liquid)	X
Ethyl Acetate	pure (liquid)	X
Ethyl Alcohol	1 - 100%	G
Ethyl Benzene	pure (liquid)	F
Ethylene Chlorohydrin	pure (solid)	X
Ethylene Glycol	pure (liquid)	G
Ethylene Oxide	pure (liquid)	F
Eugenol	pure (liquid)	X
Ferric Nitrate	pure (solid)	G
Formaldehyde	40%	G
Formic Acid	5 - 30%	G
	90%	X
Freon 11 (fluorotrichloromethane)	pure (gas)	G
Freon (1,1,3-trichloro-1,3,3-trifluoroethane)	pure (gas)	G
Furfuryl Alcohol	pure (liquid)	X
Geraniol	pure (liquid)	G
Glycerol (Glycerine)	pure (liquid)	G
Heptane	pure (liquid)	G
Hexane	pure (liquid)	G
Hydrobromic Acid	50%	G
Hydrochloric Acid	10%	G
	concentrated	X
Hydrofluoric Acid	5%	G
	50%	X
Hydrogen Peroxide	3%	G
	30%	G
Hydroquinone	pure (solid)	G
Iron(III) Nitrate	pure (solid)	G
Isooctane	pure (liquid)	G
Isopropyl Alcohol	pure (liquid)	G

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<u>Substance</u>	<u>Physical state or concentration</u>	<u>Suitability</u>
Lanolin	solid	G
Linalol	liquid	G
Magnesium Chloride	aqueous	G
Maleic Acid	50%	G
Mercury	pure (liquid)	G
Mercury (II) chloride	pure (solid)	G
Mercury (III) chloride	pure (solid)	G
3-Methoxy Ethanol	pure (liquid)	F
Methyl Alcohol	pure (liquid)	G
Methyl Cyclohexanol	pure (liquid)	G
Methyl Ethyl Ketone	pure (liquid)	X
Methyl Isobutyl Ketone	pure (liquid)	X
Methyl Methacrylate	pure (liquid)	F
Methyl Propyl Ketone	pure (liquid)	X
Methyl Salicylate	pure (liquid)	X
Methylene Chloride	pure (liquid)	X
Nitric Acid	1-10%	G
	10-20%	F
	> 30%	X
Nitrobenzene	pure (liquid)	X
n-Octane	pure (liquid)	G
Oleic Acid	pure (liquid)	G
Oxalic Acid	aqueous	G
	pure (solid)	G
Oxygen	pure (gas)	G
Perchlorethylene	pure (liquid)	X
Phenol	5%	X
Phosphoric acid	1-10%	G
	10-30%	F
	> 30%	X
Pinene	pure (liquid)	G
Potassium Bromide	pure (solid)	G
Potassium Chloride	10%	G

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Potassium Chromate	pure (solid)	G
Potassium Cyanide	pure (solid)	G
Potassium Dichromate	10%	G
	pure (solid)	G
Potassium Hydroxide	1 - 10%	X
Potassium Permanganate	10%	G
	pure (solid)	F
Propionic Acid	pure (liquid)	X
Propyl Alcohol	pure (liquid)	G
Propylene Glycol	pure (liquid)	G
Salicylic Acid	pure (solid)	G
Sodium Acetate	40%	G
Sodium Bicarbonate	10%	G
	pure (solid)	G
Sodium Bisulfide	40%	G
Sodium Bisulphite	10%	G
Sodium Borate	pure (solid)	G
Sodium Bromide	pure (solid)	G
Sodium Carbonate	1-30%	G
	pure (solid)	G
Sodium Chloride	10%	G
Sodium Cyanide	pure (solid)	G
Sodium Hydroxide	1-30%	X
Sodium Hypochlorite	1-10%	G
Sodium Nitrate	pure (solid)	G
Sodium Nitrite	pure (solid)	G
Sodium Phosphate	pure (solid)	G
Sodium Sulphate	pure (solid)	G
Sodium Sulphite	pure (solid)	G
Sodium Thiosulphate	pure (solid)	G
Stearic Acid	pure (solid)	G
Sucrose	pure (solid)	G
Sulphur	pure (solid)	G

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Sulphuric Acid	1-30%	G
	> 30%	X
Tartaric Acid	pure (solid)	G
Tetrachloroethylene	pure (liquid)	G
Tetrahydrofuran	pure (liquid)	X
Tetralin	pure (liquid)	G
Toluene	pure (liquid)	G
Trichloroacetic Acid	pure (solid)	X
1,1,1-Trichloroethane	pure (liquid)	X
Trichloroethyl Phosphate	pure (liquid)	G
Trichloroethylene	pure (liquid)	X
Triethanolamine	pure (liquid)	X
Triisopropanolamine	pure (liquid)	X
Urea	urea/water/glycerol dispersion (1:1:1)	G
Xylene	pure (liquid)	G
Zinc Chloride	pure (solid)	G

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