

Substance	Conc. %	20°C	60°C
Potassium antimonate		S	S
Arsenic	100	S	S
Benzaldehyde	100	S	L
Benzaldehyde (AQ)	Sat.	S	–
Benzene	100	L	NS
Sodium benzoate	All	S	S
Benzophenone		S	S
Ammonium bicarbonate		S	S
Potassium bicarbonate		S	S
Sodium bicarbonate		S	S
Potassium bichromate		S	S
Sodium bichromate		S	S
Potassium bisulfate		S	S
Sodium bisulfate		S	S
Potassium borate		S	S
Sodium borate		S	S
Potassium bromate		S	S
Bromine (liquid)	100.	NS	NS
Bromine (vapor)	High	NS	NS
Bromochloromethane	100	NS	NS
Hydrogen bromide	10	S	S
Methyl bromide		L	NS
Potassium bromide		S	S
Sodium bromide		S	S
Butadiene	100	NS	NS
Butane (gas)	100	S	S
Butane (liquid)	100	L	
Butanediol	100	S/E	–
Butanol	100	S	S
Butoxyl (methoxybutyl acetate)	100	S	L
Butylene glycol	100	S	S
Ethyl butyrate	100	L	NS
Aluminum carbonate	All	S	S
Ammonium carbonate		S	S
Bismuth carbonate		S	S
Magnesium carbonate		S	S
Potassium carbonate		S	S
Dimethyl Carbinol	100	S	–
General chemicals			
1,4-Dioxane	100	S	S
2-Ethylhexanol	100	S	–
4-Methyl-2-pentanol		S	L
Acetaldehyde	100	S	L
Butyric acetate	100	L	NS
Aluminum acetate	All	S	S
Ammonium acetate	100	S	S
Amyl acetate	100	L	L
Ethyl acetate	100	S	L
Lead acetate	Sat.	S	S
Sodium acetate		S	S
Acetone	100	S	S
Acetophenetidine		S	S
Acetophenone	100	S	S
Acetylene	All	S	S
Acetic acid	10	S/E	S/E
Acetic acid (duplicate)	100	S/E	V/E
Adipic acid		S	S
Aminoacetic acid	All	S	S
Arsenic acid		S	S

Substance	Conc. %	20°C	60°C
Palmitic acid		S/E	S/E
Perchloric acid	20	S	S
Perchloric acid	50	S	S
Perchloric acid	70	S	NS
Phosphoric acid	25	S	S
Phosphoric acid	50	S	S
Phosphoric acid	Conc.	S/L	NS
Phthalic acid	50	S	S
Picric acid		S	S
Propionic acid	100	S	L
Propionic acid	50	S	S
Salicylic acid		S	S
Selenic acid	100	S	S
Silicofluorhydric acid		S	S
Silicic acid		S	S
Stearic acid	100	S/E	S/E
Succinic acid	Sat.	S	S
Sulfurous acid	30	S	S
Sulfuric acid	10	S	S
Sulfuric acid	50	S	S
Sulfuric acid	95	S	L
Tannic acid		S/E	S/E
Tartaric acid	100	S	S
Aqueous tartaric acid	Sat.	S	S
Thioglycolic acid	100	S	S
Trichloroacetic acid	100	L	NS
Trichloroacetic acid	50	S	S
Ethyl acrylate	100	L	L
Methyl acrylate		NS	NS
Acrylonitrile	100	S	S
Dinonyl adipate	100	S	–
Diocetyl adipate	100	S	–
Allyl alcohol	96	S	S
Amyl alcohol	10	L	L
Butyl alcohol	100	S/E	S/E
Ethyl alcohol	100	S/E	S/E
Furfural alcohol	100	S	L
Isobutyl alcohol	100	S	–
Methanol		S/E	S/E
Nonyl alcohol	100	S	–
Propargyl alcohol		S/E	S/E
Propyl alcohol	100	S/E	S/E
Aliphatic alcohols	100	S	S
Chrome alum		S	S
Alums	All	S	S
Ammonia (gas)	100	S	S
Acetic anhydride	100	S	L
Phosphoric anhydride		S	S
Phthalic anhydride		S	S
Aniline	100	L	L
Antimony	100	S	S
Cyclohexane	100	L	L
Cyclohexanol	100	S/E	S/E
Cyclohexanone	100	S	L
Ammonium ferrous citrate chloride	Sat.	S	S
Decahydronaphthalene	100	L	NS
Dichloroethane	100	L	L
Dichloroethylene	100	NS	NS
Ethylene dichloride	100	L	NS

Substance	Conc. %	20 °C	60 °C
Aryl sulfonic acid	100	S	S
Benzene sulfonic acid	100	S/E	S/E
Benzoic acid	Sat.	S	S
Boric acid		S	S
Borofluorhydric acid		S	S
Hydrobromic acid	100	S	S
Bromic acid	50	S	S
Butyric acid	10	S	L
Hydrochloric acid	100	S	S
Chloroacetic acid	Conc.	S	S
Chlorosulfonic acid	100	NS	NS
Chromic acid	Sat.	S/L	NS
Citric acid		S/E	S/E
Cresylic acid	100	L	–
Cresylic acid	50	S	S
Cyanhydric acid	10	S	S
Cyanhydric acid	100	S	S
Cyanhydric acid	Sat.	S	S
Dichloroacetic acid	100	S	L
Dichloroacetic acid	50	S	S
Diglycolic acid	100	S/E	S/E
Ethylenediaminetetraacetic acid	100	S	S
Hydrofluoric acid	40	S	S
Hydrofluoric acid	70	S	S
Fluoric acid	40	S	S
Formic acid		S/E	S/E
Gallic acid		S/E	S/E
Glycolic acid	30	S/E	S/E
Fatty acids (>6)		S/E	S/E
Hypochlorous acid	All	S	S
Lactic acid	100	S/E	S/E
Maleic acid	50	S	S
Methylsulfuric acid		S/E	S/E
Monochloroacetic acid		S	S
Nicotinic acid		S/E	S/E
Nitric acid	50	L	NS
Nitric acid	98	NS	NS
Oleic acid	100	S/E	VE
Oxalic acid		S/E	S/E
Alkyl chloride	100	S	S
Allyl chloride	100	L	L
Aluminium chloride		S	S
Ammonium chloride		S	S
Amyl chloride	All	L	L
Ethyl chloride	100	L	NS
Ethylene chloride	100	L	NS
Benzoyl chloride	100	L	L
Magnesium chloride		S	S
Methylene chloride		NS	NS
Potassium chloride		S	S
Sodium chloride		S	S
Sulfuryl chloride		NS	–
Thionyl chloride		NS	
Zinc chloride		S	S
Ferric chloride		S	S
Mercuric chloride		S	S
Stannous chloride		S	S
Stannic chloride		S	S
Potassium chromate		S	S

Substance	Conc. %	20 °C	60 °C
Propylene dichloride	100	NS	NS
Diethylene glycol	100	S/E	S/E
Diisobutyl ketone	100	S	NS
Carbon dioxide (wet)	100	S	S
Carbon dioxide (dry)	100	S	S
Sulfur dioxide (wet)		S	S
Sulfur dioxide (dry)		S	S
Carbon disulfide	100	L	–
Bromine water	Sat.	NS	NS
Chlorine water		L	NS
Aqua regia	100	NS	NS
Acrylic emulsions	All	S/E	S/E
Epichlorohydrin	100	S	S
Butylic acid ester			
Glycolic	100	S	S
Ethanediol	100	S	S
Ether	100	S/E	L
Diphenyl ether	100	L	L
Petroleum ether	100	S	L
Dibutyl ether	100	L	NS
Diethyl ether	100	L	L
Diisopropyl ether	100	L	NS
Polyethylene glycol ethers		S	S
Ethylbenzene	100	L	NS
Ethylene glycol	100	S/E	S/E
Sodium ferrocyanide/potassium ferrocyanide		S	S
Potassium ferrocyanide		S	S
Sodium carbonate		S	S
Zinc carbonate			
Zinc and ammonium carbonate		S	S
Potassium chlorate		S	S
Sodium chlorate		S	S
Gaseous chlorine (wet)		L	NS
Liquid chlorine		NS	NS
Sodium chlorite		S	S
Chlorobenzene	100	L	NS
Chloroethanol	100	S	S
Chloroform	100	NS	NS
Chloromethane	100	L	–
Cresols	100	S	S
Potassium cuprocyanide		S	S
Potassium cyanide		S	S
Sodium cyanide		S	S
Mercuric cyanide		S	S
Dimethylformamide	100	S	L
Dimethyl sulfoxide	100	S	S
Sodium ferrocyanide		S	S
Silicone fluids		S/E	S/E
Fluorine	100	NS	NS
Aluminum fluoride		S	S
Ammonium fluoride		S	S
Potassium fluoride		S	S
Sodium fluoride		S	S
Formaldehyde (aqueous)	40	S/E	S/E
Formalin		S	S
Furfural	100	L	NS
Natural gas		S	S
Nitrous gas	100	S	S
Heptane	100	S	NS

Substance	Conc. %	20°C	60°C
Hexachlorobenzene	100	S	S
Hexamine	100	S/E	S/E
Hexane	100	NS	NS
Hydrazine hydrate	100	S/E	S
Chloral hydrate	100	S	S
Hydrazine	100	S/E	S
Hydrogen	100	S	S
Hydrogen sulfide	Low	S	S
Hydroquinone		S	S
Aluminum hydroxide		S	S
Ammonium hydroxide		S	S
Magnesium hydroxide		S	S
Potassium hydroxide		S	S
Sodium hydroxide		S	S
Potassium hypochlorite		S	S
Sodium hypochlorite		S	S
Hypochlorites	100	S	S
Sodium hyposulfite		S	–
Potassium iodide	Sat.	S	S
Isooctane	100	S	L
Isopropanol	100	S	S
Mercury	100	S	S
Ammonium metaphosphate		S	S
Methoxybutanol	100	S	L
Methyl cyclohexane		L	NS
Methyl ethyl ketone	100	S	L
Methyl glycol		S	S
Monochlorobenzene		S	S
Carbon monoxide	100	S	S
Naphthalene	100	S	–
Nicotine	Dil.	S/E	S/E
Aluminum nitrate		S	S
Ammonium nitrate		S	S
Silver nitrate		S	S
Magnesium nitrate		S	S
Potassium nitrate		S	S
Sodium nitrate		S	S
Ferric nitrate		S	S
Mercuric nitrate		S	S
Sodium nitrite		S	S
Nitrobenzene	100	NS	NS
Nitroglycerin	100	NS	NS
Nitropropane		L	L
o-Dichlorobenzene		L	NS
o-o-Nitrotoluene	100	S	L
Oleum		NS	NS
Potassium orthophosphate		S	S
Sodium orthophosphate		S	S
Aluminum oxalate		S	S
Ammonium oxalate		S	S
Aluminum oxychloride		S	S
Phosphorus oxychloride		S	L
Zinc oxide		S	S
Oxygen	100	S	S
Ozone		NS	NS
p-Dichlorobenzene		L	NS
Potassium		S	S
Pentane		NS	–
Phosphorus pentoxide		S	S
Potassium perborate		S	S
Sodium perborate		S	S

Substance	Conc. %	20°C	60°C
Tetraacetic	100	S	S
Sodium tetraborate		S	S
Tetrabromomethane	100	NS	NS
Tetrachloroethane	100	NS	NS
Carbon tetrachloride	100	NS	NS
Tetraethyl lead		S	
Tetrahydrofuran	100	L	NS
Tetralin	100	S	L
Ammonium thiocyanate		S	S
Thiophene	100	L	L
Sodium thiosulfate		S	S
Toluene	100	L	NS
Trichloroethylene	100	L	NS
Antimony trichloride	100	S	S
Phosphorus trichloride		S	L
Triethanolamine		L	L
Bortrifluoride	100	S	–
Sodium trioxide		NS	NS
Urea		S/E	S/E
Xylene	100	L	NS
<i>Oils, essences, and waxes</i>			
Coconut oil alcohols		S/E	S/S
Beeswax	100	S	S
Carnauba wax		S	S
Paraffin wax	100	S	S
Diesel (fuel)		S	S
Gasoline		S/L	S/L
Cinnamon essence		NS	NS
Lemongrass essence		NS	NS
Clove oil		S	S
Anise oil		100	LNS
Pine needle oil	100	S	S
Lemon peel oil		S	L
Pine oil	100	L	NS
Orange peel oil	100	S	–
Peppermint oil		L	NS
Turpentine oil	100	L	NS
Cedar leaf oil	NS	NS	
Cedarwood oil		NS	NS
Fuel oil	100	S	L
Castor oil	100	S/E	S/E
Cod liver oil	100	S	–
Corn oil		S	L
Cottonseed oil		S/E	S/E
Linseed oil	100	S	S
Motor oil	100	S	L
Palm oil	100	S	–
Paraffin oil	100	S	L
Salad oil	100	S	L
Silicone oil	100	S/E	V/E
Soybean oil	100	S	–
Coconut oil		S	NS
Olive oil	100	S	S
Peanut oil	100	S	S
Mineral oil		L	L
Transformer oil	100	S	L
Kerosene		L	L
Lanolin	100	L	–
Menthol	100	S	S
Tallow	100	S	–
White spirit		S/L	L

Substance	Conc. %	20 °C	60 °C	Substance	Conc. %	20 °C	60 °C
Potassium permanganate		S	S	<i><u>Aliments, etc.</u></i>			
Hydrogen peroxide	30	S	S	Starch		S	S
Hydrogen peroxide	90	S	NS	Buttermilk		S	—
Sodium peroxide	10	S		Butter		S	—
Sodium peroxide	Sat.	L		Beer		S	S
Ammonium persulfate		S	S	Cocoa		S	—
Potassium persulfate		S	S	Coffee		S	S
Phenol (aqueous phase)		S	S	Cinnamon		S	—
Phenol (solid phase)	100	S	S	Cider		S/E	S/E
Phosgene		S	—	Clove		S	—
Ammonium phosphate		S	S	Coca-Cola		S	S
Sodium phosphate		S	S	Cream		S	S
Tri-B-chloroethylene phosphate	100	S	S	Jam	100	S	S
Tricresyl phosphate	100	L	L	Dextrose		S	S
Disodium phosphate	100	S	S	Digestive		S	—
Hydrogen phosphite	100	S	S	Sparkling water		S	—
Phosphorus		S	S	Fructose		S	S
Dibutyl phthalate	100	L	L	Gelatin		S	S
Diethyl phthalate	100	S	S	Jelly	100	S	S
Dinonyl phthalate	100	S	L	Gin	40	S	L
Diethyl phthalate	100	S	L	Glucose		S	S
Caustic potash (solution)	10	S	S	Glycerin	10	S	S/E
Caustic potash (solution)	50	S	S	Glycerin (aqueous)	High	S/E	S/E
Propane (gas)	100	S	S	Glycerin (aqueous)	Low	S	S
Liquid propane	100	S	—	Pineapple juice		S	S
Propylene glycol		S/E	S/E	Lemon juice		S	S
Pseudo-cumene		L	L	Lime juice		S	S
Pyridine	100	S	NS	Orange juice		S	S
Quinine		S	—	Fruit juice		S	S
Epoxy resins	100	S	S	Grapefruit juice		S	S
Resorcinol	100	S	S	Tomato juice	100	S	S
Dibutyl sebacate	100	S	—	Ketchup (tomato sauce)	100	S	S
Silver salts (aqueous)	Sat.	S	S	Lard (lard)		S	
Chromium salts	Sat.	S	S	Curdled milk		S	—
Copper salts (aqueous)	Sat.	S	S	Milk		S	S
Iron salts (aqueous)	Sat.	S	S	Yeast	100	S	S
Nickel salts (aqueous)	Sat.	S	S	Margarine	100	S	S
Sodium silicate		S	S	Mayonnaise	100	S	
Caustic soda	10	S	S	Molasses		S	S
Caustic soda	50	S	S	Honey		S	S
Sulfur		S	S	Mustard		S	S
Aluminum sulfate		S	S	Marc (wine alcohol)	100	S	S
Ammonium sulfate		S	S	Paprika	100	S	S
Magnesium sulfate		S	S	Pectin	Sat.	S	S
Manganese sulfate		S	S	Pepper		S	S
Potassium sulfate		S	S	Horseradish		S	
Sodium sulfate		S	S	Rum		S	S
Zinc sulfate		S	S	Sucrose	100	S	S
Ferrous sulfate		S	S	Beet syrup	100	S	S
Ferric sulfate		S	S	Tea (leaves)		S	S
Potassium sulfite		S	S	Vanilla	100	S	S
Sodium sulfite		S	S	Vinegar	All	S	S
Sodium dodecylbenzene		S	S	Wine (Bordeaux)	100	S	S
				Whisky	40	S/E	—
Phenyl sulfonate		S	S				
Ammonium sulfide		S	S				
Potassium sulfide		S	S				
Sodium sulfide		S	S				

Substance	Conc. %	20°C	60°C
-----------	---------	------	------

Automobile products, garden products, and household products

Denatured alcohol (for burning)		S/E	S/E
Antifreeze		S	S
Borax		S	S
Floor wax	100	S	L
Polish	100	S	L
Creosote	100	S	S
Cresol (aqueous)		S	S
Detergents		S/E	S/E
Dextrin		S	S
Photographic emulsions	100	S/E	S/E
Ink	100	S	S
Bleach		L	L
Hydraulic fluid	100	S	L
Tar	100	S	S
Brake fluid	100	S/E	S/E
Furniture polish	100	S/E	L
Brine		S	S
Shampoo		S	S
Talc		S	S
Vaseline		S	S
Nail polish and remover		S	L

Caption*

S: Satisfactory. The chemical is only absorbed in a small proportion and therefore has little or no measurable effect on the physical properties.

L: Limited resistance. Absorption occurs in higher proportions, resulting in a notable loss of physical properties. The suitability of polyethylene must be examined based on the considered environment.

E: Possibility of cracking under stress.

NS: Unsatisfactory. Attack by chemical agents or high level of absorption. In both cases, the loss of physical properties is such that the use of polyethylene cannot be considered in the event of prolonged contact.

*** All data is purely indicative and in no case constitutes a guarantee or certification.**