

1. Compatibility with chemical agents

The data of this list is based on information of the supplier of the PP- and PE material. Examination of the media to be transported is a matter for the plant operator.

Here, it is merely a question of a recommendation. We can not guaranty for correctness.'

Abbreviation	Meaning	Abbreviation	Meaning	Abbreviation	Meaning
tp	technically pure	co sat	cold saturated	wat	watery
gas	gaseous	nc	normal concentration	li	liquid
all	sämtlich	gl ac	glacial acetic		

+ = Resistant / 0 = Partially Resistant / - = NOT Resistant

Chemical agents	concentration	Temp. [°C]	PP	PE	Chemical agents	concentration	Temp. [°C]	PP	PE
Ammonium acetate	all wat	20	+	+	Sulphur dioxide		20	-	-
		40	+	+	Anilin	tp	20	0	0
		60	+	+	Anti-freeze, liquid	tp	20	+	+
Butyl acetate	tp	20	+	0	Potassium bromate	sat wat	20	+	+
Ethyl acetate	tp	20	+	+	Borax	all wat	20	+	+
		40	0	0					
Vinyl acetate	tp	20		+	Bromine, liquid	tp	20	-	-
(Wine) vinegar	nc	20	+	+	Butadiene	tp	20	+	+
Acetone	tp	20	+	+	Butane, gaseous	tp	20	+	+
Acetic acid	tp gl ac	20	+	+	Cyclohexane	tp	20	+	+
		40	+	+	Chlorine	tp	20	-	-
		60	0	0	Chloroform	97% moisture, gaseous	20	-	0
Boric acid glyceride	all wat	20	+	+	Ethylene chloride	tp	20	0	0
		40	+	+	Chloromethane	tp	20	0	-
Hydrobromic acid	50% wat	20	+	+	Vinyl chloride	tp	20		
Citric acid	10% wat	20	+	+	Dichlorotoluene	tp	20	-	0
		40	+	+	Dimethylamine	tp	20	+	+
		60	+	+	1,4-Dioxan	tp	20	+	0
Chloric acid	10% wat 20% wat	20	+	-	Diethylphthalate	tp	20	0	+
		20	0	-	Ethane	tp	20	+	+
Hydrochloric acid	10% wat	20	+	+	Ether	tp	20	0	+
		40	+	+	Ethyl benzene	tp	20	-	0
		60	+	0	Ethylene diamine	tp	20	+	+
	up to 30% wat	20	+	+	Phenol	up to 10% wat	20	+	+
		40	+	0	Fluorine, dry	tp	20	-	-
		60	+	0	Ammonium fluoride	50% wat	20	+	+
	30% wat	20	+	+	Formaldehyde	40% wat	20	+	+
		40	+	0	Sodium phosphate	wat co sat	20	+	+
		60	+	-	Phosgene	tp	20		0
Chromic acid	up to 50% wat	20	0	0	Diesel fuel		20	+	0
		40	-	-	Glycerine	tp	20	+	+
Hydrofluoric acid	50% wat	20	+	+	Hydrogen	tp	20	+	+
	70% wat	20	+	+	Ammonium hydroxide	wat co sat	20	+	+
Fluosilicic acid	32% wat	20	+	+	Iodine		20	+	+
Phosphoric acid dilution	50% watery	20	+	+	Sodium iodide	wat	20	+	+
	85% watery	20	+	+	Calcium hypochlorite	wat co sat	20	+	+
		40	+	+	Sodium hypochlorite	12,5% active chlorine wat	20	0	0
		60	0	+	Isoctane	tp	20	+	+

+ = Resistant / 0 = Partially Resistant / - = NOT Resistant

Chemical agents	concentration	Temp. [°C]	PP	PE	Chemical agents	concentration	Temp. [°C]	PP	PE
Phthalic acid	sat wat	20	+	+	Mercury	pure	20	+	+
		40	+	+	Methane	tp	20	+	+
Glycolic acid	37% wat	20	+	+	Methylhexylketon	tp	20	+	+
Lactic acid	10% wat	20	+	+	Naphta		20	0	0
		40	+	+			40	-	-
Maleic acid	wat co sat	20	+	+	Naphtalene	tp		+	+
Nitric acid	up to 40% wat	20	0	0	Ammonium nitrate	10% wat	20	+	+
		40			Sodium nitrate	wat co sat	20	+	+
		60	-	-	Nitrotoluene	tp	20	+	+
	65% wat	20	0	-	Oleum	10% SO2	20	-	-
		40	-	-	Lubricant oils		20	+	0
100%	20	-	-	Olive oil		20	+	+	
Oxalic acid	wat co sat	20	+	+	Paraffin oil		20	+	+
Perchloric acid	10% wat	20	+	+	Silicon oil		20	+	+
		40	+	+	Sodium oxalate	wat co sat	20	+	+
		60	+	+	Ethylene oxide	tp	20	-	0
	70% wat	20	+	0	Oxygen	tp	20	+	+
40		0	-	60			0	0	
Hydrogen sulphide	tp	20	+	+	Ozone	in the air up to 2%	20	0	0
Sulphuric acid	up to 40% wat	20	+	+	Tetrachloroethylene	tp	20	0	0
		40	+	+	Potassium permanganate	wat co sat	20	+	+
		60	+	+	Hydrogen peroxide	20% wat	20	+	+
	up to 60% wat	20	+	+			40	+	+
		40	+	+			60	+	0
	up to 80% wat	20	+	+	Hydrogen peroxide	90% wat	20	+	-
		40	+	+	Petroleum	tp	20	+	+
		60	0	0			40	+	0
	20	0	0	60			0	0	
	90% wat	20			Propane	tp li	20	+	+
			40			Sodium silicate	all wat	20	+
		40			Caustic soda	50% wat	20	+	+
60							40	+	+
20			60	+			+		
	40			20			+	+	
96% wat	20	-	-	Ammonium sulphate	10% wat	40	+	+	
	40					60	+	+	
60									
Sulphurous acid	sat wat	20	+	+	Tetrachloroethane	tp	20	0	0
Stearic acid	tp	20	+	+	Lead tetraethyl	tp	20	+	+
Tartaric acid	all wat	20	+	+	Tetrahydrofurane	tp	20	0	-
Trichloroacetic acid		20	+	+	Toluene	tp	20	0	0
Turpentine	nc	20	+	0	Trichloroethane	tp	20	0	0
Benzyl alcohol	tp	20	+	+	Trichloroethylene	tp	20	-	0
Ethanol	96% tp	20	+	+	Triethanolamine	tp	20	+	+
		40	+	+	Urea	up to 30% wat	20	+	+
		60	+	+			20	0	+
Methyl alcohol	all	20	+	+	Vaseline	tp	20	0	+
Acetaldehyde	tp	20	+	0	Xylene	tp	20	-	-
Chrome alum	wat co sat	20	+	+	Sulphur	tp	20	+	+
Ammoniac	tp gas	20	+	+					
		40	+	+					
		60	+	+					
Acetic acid anhydride	tp	20	+	+					