

CHEMICAL RESISTANCE - POLYETHYLENE

The below table indicates the chemical resistance of PE to various media at a number of temperatures.

In transporting chemicals, consideration needs to be given to the following factors:

- the medium
- concentration of the medium
- temperature
- duration of the load
- flow volume

The elastomer resistance list is intended as an aid for determining the suitability of a given seal. The indicated values refer to the volume of swelling for the rubber compound, which is only one of the indications for determining resistance. Chemical damage to the polymer chain can also lead to changes in mechanical properties such as tensile strength, elasticity at break, etc. The most commonly indicated values are measured at a temperature of 20°C. A longer exposure to a higher temperature can create more aggressive conditions that reduce the life-span of elastomers.

Explanation of symbols used for PE pipes and fittings:	
+	Resistant: based on performed tests, PE is in general a suitable material for this application
/	Limited resistance: further research required
-	Non-resistant

Empty field = The material has not been tested on this medium at this temperature.

1. Little of no effect: volume change <10%, the elastomer can display slight swelling and/or loss of physical characteristics under heavy conditions.
2. Possible change of physical qualities: volume change of 10-20%, the elastomer can display swelling and a change of physical characteristics, may be suitable for structural applications.
3. Substantial change in physical characteristics: the elastomer displays a substantial change in volume and physical qualities.
4. Excessive change: elastomer is unsuitable.

Empty field = The elastomer has not been tested on this medium.

Abbreviations used:

PE = polyethylene

NBR = acrylonitrile butadiene

EPDM = ethylene propylene

FPM = fluorocarbon

SBR = styrol butadiene



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Component		Concentration	Pipe and fittings			Elastomeric seals				
Name	Formula	Remark		HDPE			NBR	EPDM	FPM	SBR
				°C	°C	°C	°C	°C	°C	°C
				20	40	60	20	20	20	20
Acetaldehyde	CH ₃ CHO	Aqueous solution	40%	+	+	/	4	2	4	3
Acetaldehyde	CH ₃ CHO	Technically pure	100%	+	/	/	4	2	4	3
Acetic Acid	CH ₃ COOH	Aqueous solution	10%	+	+	+	4	3/4	4	4
Acetic Acid	CH ₃ COOH	Aqueous solution	30%	+	+	+	4	4	4	4
Acetic Acid	CH ₃ COOH	Aqueous solution	60%	+	+	+	4	4	4	4
Acetic Acid	CH ₃ COOH	Aqueous solution	80%	/	/	-	4	4	4	4
Acetic Acid	CH ₃ COOH	Technically pure	100%	+	+	/	4	4	4	4
Acetic Acid Anhydride	(CH ₃ CO) ₂ O	Technically pure	100%	+	/	/	4	2	4	2
Acetone	CH ₃ COCH ₃	Aqueous solution	10%	+	+	+	4	1	4	2/3
Acetone	CH ₃ COCH ₃	Technically pure	100%	/	/	/	4	1	4	2/4
Acetophenone	CH ₃ COC ₆ H ₅	Technically pure	Indetermined	+	+	+	4	1	4	4
Acrylonitrile	CH ₂ =CH-CN	Technically pure	100%	+	+	+	4	4	4	3
Adipic Acid	HOOC(CH ₂) ₄ COOH	Aqueous solution	Saturated	+	+	+	1	1	1	1
Alcohol			40%	+						
Alcoholic Spirits			Comm. Comp.	+	+					
Allyl Alcohol	CH ₂ =CH-CH ₂ OH	Aqueous solution	96%	+	+	+				
Alum	Al ₂ (SO ₄) ₃ K ₂ SO ₄ 4H ₂ O	Aqueous solution	Solution	+	+	+	2	1	1	1
Alum	Al ₂ (SO ₄) ₃ K ₂ SO ₄ 4H ₂ O	Aqueous solution	Saturated	+	+	+	2	1	1	1
Aluminium Acetate	(C ₂ H ₃ COO) ₃ Al	Aqueous solution	Saturated	+	+	+	2	1	4	4
Aluminium Bromide	AlBr ₃	Aqueous solution	Saturated	+	+	+	1	1	1	1
Aluminium Chloride	AlCl ₃	Aqueous solution	All	+	+	+	2	1	1	1
Aluminium Fluoride	AlF ₃	Aqueous solution	Saturated	+	+	+	2	1	1	1
Aluminium Nitrate	Al(NO ₃) ₃	Aqueous solution	Saturated	+			1	1	1	1
Aluminium Sulfate	Al ₂ (SO ₄) ₃	Aqueous solution	10%	+	+	+	2	1	1	1
Aluminium Sulfate	Al ₂ (SO ₄) ₃	Aqueous solution	Saturated	+	+	+	2	1	1	1
Ammonia	NH ₃	Aqueous solution	Solution	+	+	+	2	1	3	2
Ammonia Gas	NH ₃	Aqueous solution	Saturated	+	+	+	2	1	3	2
Ammonia Gas	NH ₃	Technically pure	100%	+	+	+	2	1	3	2
Ammonium Acetate	CH ₃ COONH ₄	Aqueous solution	Saturated	+	+	+				
Ammonium Bifluoride	NH ₄ FHF	Aqueous solution	Saturated	+	+	+				
Ammonium Carbonate	(NH ₄) ₂ CO ₃	Aqueous solution	100%	+	+	+	2	1	2	2
Ammonium Chloride	NH ₄ Cl	Aqueous solution	Saturated	+	+	+	1	1	1	1
Ammonium Fluoride	NH ₄ F	Aqueous solution	25%	+	+	+	1	1	1	1
Ammonium Fosfate	(NH ₄) ₃ PO ₄ X H ₂ O		All	+	+	+	1	1	1	1
Ammonium Hydroxide	NH ₄ OH	Aqueous solution	Solution	+	+	+	4	1	2	4
Ammonium Hydroxide	NH ₄ OH	Aqueous solution	Saturated	+	+	+	4	1	2	4
Ammonium Nitrate	NI I ₄ NO ₃	Aqueous solution	Saturated	+	+	/	2	1	1	1
Ammonium Sulfate	(NH ₄) ₂ SO ₄	Aqueous solution	All	+	+	+	1	1	1	1
Ammonium Sulfhydrate	NH ₄ OH(NH ₄) ₂ SO ₄	Aqueous solution	Solution	+						
Ammonium Sulfhydrate	NH ₄ OH(NH ₄) ₂ SO ₃	Aqueous solution	Saturated	+						
Ammonium Sulfide	(NH ₄) ₂ S	Aqueous solution	10%	+	+	+	1	1	1	1
Ammonium Sulfide	(NH ₄) ₂ S	Aqueous solution	Saturated	+	+	+	1	1	1	1
Amyl Acetate	CH ₃ COO(CH ₂) ₄ CH ₃	Technically pure	100%	+	+	+	4	2	4	3
Amyl Alcohol	CH ₃ (CH ₂) ₃ CH ₂ OH		100%	+	+	/	2	2	2	1
Amyl Chloride	CH ₃ (CH ₂) ₄ Cl	Technically pure	100%	-				4	1	4
Aniline	C ₆ H ₅ NH ₂	Technically pure	100%	/			4	2/3	1	3
Aniline Chlorhydrate	C ₆ H ₅ NH ₂ HCl	Aqueous solution	Saturated	/	/	/	2	2	1	1
Anthraquinone Sulfonic Acid			Solution	+						
Antimony Trichloride	SbCl ₃	Aqueous solution	90%	+	+	+	1	1	1	1
Aqua Regia	3HCl+1HNO ₃		100%	-	-	-	4	4	2/3	4
Arsenic Acid	H ₃ AsO ₄		Saturated	+	+					
Barium Carbonate	BaCO ₃	Aqueous solution	All	+	+	+				
Barium Chloride	BaCl ₂	Aqueous solution	All	+	+	+				
Barium Hydroxide	Ba(OH) ₂	Aqueous solution	Saturated	+	+	+	1	1	1	1
Barium Nitrate	Ba(NO ₃) ₂	Aqueous solution	Saturated	+	+	+				
Barium Sulfate	BaSO ₄	Aqueous solution	Saturated	+	+	+				
Barium Sulfide	BaS	Aqueous solution	Saturated	+	+	+	1	1	1	2
Beer			100%	+	+	+	1	1	1	1
Benzaldehyde	C ₆ H ₅ CHO	Aqueous solution	Saturated	+	+	+	4	2	4	3
Benzene	C ₆ H ₆	Technically pure	100%	/	-	-	4	4	3	4
Benzene + Benzine			20/80%	/	-	-	2/3	4	2	4

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Component			Concentration	Pipe and fittings			Elastomeric seals				
Name	Formula	Remark		HDPE			NBR	EPDM	FPM	SBR	
				°C			°C	°C	°C	°C	
				20	40	60	20	20	20	20	
Benzene Sulfonic Acid	C ₆ H ₅ SO ₃ H	Aqueous solution	10%	-			4	4	1	4	
Benzine (Free Of Pb And Aromatic)	C ₅ H ₁₂ +C ₁₂ H ₂₆	Technically pure	100%	+	+	/	4	4	1	4	
Benzoic Acid	C ₆ H ₅ COOH	Aqueous solution	Saturated	+	+	+	4	4	1	4	
Benzyl Alcohol	C ₆ H ₅ CH ₂ OH	Technically pure	100%	+	+	/	4	1	1	4	
Bleaching Lye	NaClO+NaCl		12,5% Cl	/	/		4	1	1	4	
Borax	Na ₂ B ₄ O ₇	Aqueous solution	All	+	+	+	1	1	1	1	
Boric Acid	H ₃ BO ₃	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Brine			Comm. Comp.	+							
Bromic Acid	HBrO ₃		10%	+	+	+	4	1	1	4	
Bromine,Liquid	Br ₂	Technically pure	100%	-			4	3	2	4	
Bromine,Liquid	Br ₂		High	-			4	4	1	4	
Butadiene	CH ₂ =CH-CH=CH ₂	Gas	100%	+			3	4	2	4	
Butane Gas	CH ₃ CH ₂ CH ₂ CH ₃		100%	+	+	+	2	4	2	4	
Butanediol	OHCH ₂ CH ₂ CH ₂ CH ₂ OH	Aqueous solution	10%	+	+	+					
Butanediol	OHCH ₂ CH ₂ CH ₂ CH ₂ OH	Aqueous solution	Concentrated	/	-	-					
Butyl Acetate	CH ₃ COOCH ₂ CH ₂ CH ₂ CH ₃	Technically pure	100%	/	/	/	4	2	4	4	
Butyl Alcohol	CH ₃ (CH ₂) ₃ OH	Technically pure	100%	+	+	+	1	2	1	1	
Butyl Ether	(CH ₃ (CH ₂) ₃) ₂ O	Technically pure	100%	/	-	-	4	3	4	4	
Butyl Phenol	C ₄ H ₉ C ₆ H ₄ OH	Technically pure	100%	-			4	4	2	4	
Butyl Phthalate	HOOC ₆ H ₄ COOC ₄ H ₉	Technically pure	100%	+	/	/					
Butylene	CH ₂ =CH-CH ₂ CH ₄	Liquid	100%	-			2	4	1	4	
Butylene Glycol	OHCH ₂ -CH=CH-CH ₂ OH	Technically pure	100%	+	+	+	1	1	1	1	
Butylene	CH ₂ =CH-CH ₂ CH ₃	Technically pure	100%	-			2	4	1	4	
Butyric Acid	CH ₃ CH ₂ CH ₂ COOH	Aqueous solution	20%	+	+	/					
Butyric Acid	CH ₃ CH ₂ CH ₂ COOH	Technically pure	100%	+	+	/					
Calcium Acetate	Ca(CH ₃ COO) ₂	Aqueous solution	Saturated	+	+	+	2	1	4	4	
Calcium Bisulfite	Ca(HSO ₃) ₂	Aqueous solution	Saturated	+	+	+	2	1	2	2	
Calcium Carbonate	CaCO ₃	Aqueous solution	All	+	+	+	1	1	1	1	
Calcium Chlorate	Ca(ClO ₃) ₂	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Calcium Chloride	CaCl ₂	Aqueous solution	All	+	+	+	1	1	1	1	
Calcium Hydroxide	Ca(OH) ₂	Aqueous solution	All	+	+	+	1	1	1	1	
Calcium Hypochloride	Ca(ClO) ₂	Aqueous solution	Saturated	+	+	+	4	1	1	4	
Calcium Nitrate	Ca(NO ₃) ₂	Aqueous solution	50%	+	+	+	1	1	1	1	
Calcium Sulfate	CaSO ₄	Aqueous solution	Saturated	+	+	+					
Calcium Sulfide	CaS	Aqueous solution	Saturated	/	/	/	1	1	1	2	
Camphor Oil			Comm. Comp.	-	-						
Carbon Dioxide	CO ₂ +H ₂ O	Aqueous solution	Indetermined	+	+	+	1	1	1	1	
Carbon Dioxide	CO ₂	Gas	100%	+	+	+	1	1	1	1	
Carbon Disulfide	CS ₂	Technically pure	100%	/	-	-	4	4	1	4	
Carbon Monoxid	CO	Gas	100%	+	+	+	2	2	1	2	
Carbon Tetrachloride	CCl ₄	Technically pure	100%	-							
Carbonic Acid	H ₂ CO ₃	Aqueous solution	Saturated	+	+	+					
Chloramine	C ₆ H ₅ SO ₂ NNaCl	Aqueous solution	Solution	+							
Chloric Acid	HClO ₃	Aqueous solution	20%	/							
Chlorine	Cl ₂	Wet	All	/	-	-	4	3	1	4	
Chlorine	Cl ₂	Gas	100%	/	/	-	4	2	4	4	
Chlorine	Cl ₂	Technically pure	100%	-							
Chlorine Water	Cl ₂ +H ₂ O		Saturated	/	/						
Chloro Benzene	C ₆ H ₅ Cl	Technically pure	100%	/	-	-					
Chloro Sulfonic Acid	HCISO ₃	Technically pure	100%	-	-	-					
Chloroform	CHCl ₃	Technically pure	100%	-			4	4	2	4	
Chrome Alum	KCr(SO ₄) ₂	Aqueous solution	Saturated	+	+	+					
Chrome Alum	KCr(SO ₄) ₂		Indetermined	+	+	+					
Chromic Acid	CrO ₃ +H ₂ O	Aqueous solution	10%	/	-	-	4	2/3	1	4	
Chromic Acid	CrO ₃ +H ₂ O	Aqueous solution	30%	/	-	-	4	2/3	1	4	
Chromic Acid	CrO ₃ +H ₂ O	Aqueous solution	50%	/	-	-	4	2/3	1	4	
Citric Acid	C ₃ H ₄ (OH)(COOH) ₃	Aqueous solution	50%	+	+	+	2	1	1	2	
Compressed Air with Oil			100%	+	+						
Copper Acetate	Cu(COOCH ₃) ₂		Saturated	+			2	1	4	4	
Copper Chloride	CuCl ₂	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Copper Fluoride	CuF ₂	Aqueous solution	All	+	+	+	2	1	1	1	
Copper Nitrate	Cu(NO ₃) ₂	Aqueous solution	Indetermined	+	+	+	2	1	1	1	

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Component				Pipe and fittings			Elastomeric seals				
Name	Formula	Remark	Concentration	HDPE			NBR	EPDM	FPM	SBR	
				°C			°C	°C	°C	°C	
				20	40	60	20	20	20	20	
Copper Sulfate	CuSO ₄	Aqueous solution	Solution	+	+	+	1	1	1	1	
Copper Sulfate	CuSO ₄	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Cresol	CH ₃ C ₆ H ₄ OH	Aqueous solution	>=90%	+	+	/					
Cresol	CH ₃ C ₆ H ₄ OH	Aqueous solution	Solution	+	+	/					
Croton Aldehyde	CH ₃ -CH=CH-CHO	Technically pure	100%	/							
Cryolite	Na ₃ AlF ₆	Aqueous solution	Saturated	/	/	-					
Cyclohexane	C ₆ H ₁₂	Technically pure	100%	+	+	+	2	4	1	4	
Cyclohexanol	C ₆ H ₁₁ OH	Technically pure	100%	+	/	/	2	4	2	3	
Cyclohexanone	C ₆ H ₁₀ O	Technically pure	100%	+	/	/	4	3	4	4	
Decalin (Decahydronaftalene)	C ₁₀ H ₁₈	Technically pure	100%	+	/	/					
Detergents		Aqueous solution	Comm. Comp.	+	+	+					
Dextrine			Comm. Comp.	+	+	+					
Dextrose	C ₆ H ₁₂ O ₆	Aqueous solution	All	+	+	+					
Dextrose	C ₆ H ₁₂ O ₆	Aqueous solution	Saturated	+	+	+					
Dextrose	C ₆ H ₁₂ O ₆	Aqueous solution	All	+	+	+	1	1	1	1	
Dibutyl Phthalate	C ₆ H ₄ (COOC ₄ H ₉) ₂	Technically pure	100%	-			4	2	2	4	
Dibutyl Sebacate	C ₈ H ₁₆ (COOC ₄ H ₉) ₂	Technically pure	100%	+			4	2	2	4	
Dichloro Benzene	C ₆ H ₄ Cl ₂	Technically pure	100%	/			4	4	2	4	
Dichloroacetic Acid	Cl ₂ CHCOOH	Aqueous solution	50%	+	+	+	2	2	2	2	
Dichloroacetic Acid	Cl ₂ CHCOOH	Technically pure	100%	+	+	/	3	2	3	3	
Dichloroacetic Acid	Cl ₂ CHCOOCH ₃	Technically pure	100%	+	+	+					
Methyl Ester											
Dichloroethylene	CHCl=CHCl	Technically pure	100%	-			2		2	4	
Diesel Oil			100%	+	/	/	1	4	1	4	
Diethylether	C ₂ H ₅ OC ₂ H ₅	Technically pure	100%	-	-		4	4	4	4	
Diglycolic Acid	HOOCCH ₂ OCH ₂ COOH	Aqueous solution	Saturated	+							
Di-Isobutyl Ketone	(CH ₃) ₂ CHCH ₂ COCH ₂ CH	Technically pure	100%	+	/	-	4	2	4	2/3	
	(CH ₃) ₂										
Dimethyl Amine	(CH ₃) ₂ NH	Technically pure	100%	/	-						
Dimethyl Formamide	HCON(CH ₃) ₂	Technically pure	100%	+	+	/	4	2	4	3	
Diocetyl Phthalate	C ₆ H ₄ (COOC ₈ H ₁₇) ₂	Technically pure	100%	+	/	/	4	2	2	4	
Dioxane	(CH ₂) ₄ O ₂	Technically pure	100%	+	+	+	4	2/3	4	4	
Ethyl Acetate	CH ₃ COOCH ₂ CH ₃	Technically pure	100%	+	/	-	4	2/3	4	4	
Ethyl Alcohol	CH ₃ CH ₂ OH	Aqueous solution	96%	+	+	/	2	1	2	1	
Ethyl Benzene	C ₆ H ₅ C ₂ H ₅	Technically pure	100%	/	/	/	4	4	2	4	
Ethyl Chloride	CH ₃ CH ₂ Cl	Technically pure	100%	/	-		2/3	4	2	4	
Ethyl Ether	CH ₃ CH ₂ OCH ₂ CH ₃	Technically pure	100%	/			3	3	4	4	
Ethylene Chlorohydrin	ClCH ₂ CH ₂ OH	Technically pure	100%	+	+	/	4	2	2	2	
Ethylene Diamina	NH ₂ CH ₂ CH ₂ NH ₂	Technically pure	100%	-	-	-	2	1	4	2	
Ethylene Dichloride	CH ₂ ClCH ₂ Cl	Technically pure	100%	/	/		4	4	2/3	4	
Ethylene Glycol	HOCH ₂ -CH ₂ OH	Technically pure	100%	+	+	+	1	1	1	1	
Ethylene Oxide	C ₂ H ₄ O	Technically pure	100%	-			3	3	4	4	
Exhaust fumes			Traces	+	+	+					
Fatty Acids	R>C ₆	Technically pure	100%	+	+	/					
Ferric Chloride	FeCl ₃	Aqueous solution	Saturated	+	+	+	2	1	1	2	
Ferric Nitrate	Fe(NO ₃) ₃		Indetermined	+	+	+					
Ferric Sulfate	Fe ₂ (SO ₄) ₃	Aqueous solution	Saturated	+	+	+					
Ferrous Chloride	FeCl ₂	Aqueous solution	Saturated	+	+	+	2	1	1	2	
Ferrous Nitrate	Fe(NO ₃) ₂	Aqueous solution	Saturated	+	+	+					
Ferrous Sulfate	FeSO ₄	Aqueous solution	Saturated	+	+	+	2	1	1	2	
Fertilizer Salts		Aqueous solution	10%	+	+	+					
Fertilizer Salts		Aqueous solution	Saturated	+	+	+					
Fluoboric Acid	HF ₄	Technically pure	100%	+	+	+	1	1		1	
Fluorine Gas Dry	F ₂		100%	-			4		1	4	
Fluosilicic Acid	H ₂ SiF ₆	Aqueous solution	32%	+	+	+					
Formaldehyde	CH ₂ O	Aqueous solution	37%	+	+	+	1	1	1	1	
Formamide	HCONH ₂	Technically pure	100%	+	+	+	2	2	1	1	
Formic Acid	HCOOH	Aqueous solution	50%	+	+	+	4	2	4	2	
Formic Acid	HCOOH	Technically pure	100%	+	+	+	4	2	4	2	
Freon F-12	CCl ₂ F ₂	Technically pure	100%	-			2	2/3	2	4	
Fruit pulp and juice			Comm. Comp.	+							
Furfuryl Alcohol	C ₅ H ₆ O ₂	Technically pure	100%	+	+	/	4	2		4	

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Component			Concentration	Pipe and fittings			Elastomeric seals			
Name	Formula	Remark		HDPE			NBR	EPDM	FPM	SBR
			°C			°C	°C	°C	°C	
			20	40	60	20	20	20	20	
Gelatine			100%	+	+	+	1	1	1	1
Glycerine	C ₃ H ₅ (OH) ₃	Aqueous solution	All	+	+	+	1	1	2	1
Glycoll	NH ₂ CH ₂ COOH	Aqueous solution	10%	+	+					
Glycolic Acid	HOCH ₂ COOH	Aqueous solution	37%	+	+	+				
Gas containing:										
- Carbon Dioxide	CO ₂	Gas	All	+	+	+				
- Carbon Monoxid	CO	Gas	All	+	+	+				
- Hydrochloric Acid	HCL	Gas	All	+	+	+				
- Hydrochloric Acid	HCL	Gas	All	+	+	+				
- Hydrofluoric Acid	HF	Gas	< 0,1 %	+	+	+				
- Nitrous Vapours	NO, NO ₂ , N ₂ O ₃ , NOx	Gas	< 0,1 %	+	+	+				
- Nitrous Vapours	NO, NO ₂ , N ₂ O ₃ , NOx	Gas	5%	+	+	+				
- Oleum	H ₂ SO ₄ + SO ₃	Gas	< 0,1 %	-	-	-				
- Oleum	H ₂ SO ₄ + SO ₃	Gas	5%	-	-	-				
- Sulphur Dioxide Liquid	SO ₂	Gas	All	+	+	+				
- Sulphur Trioxide	SO ₃	Gas	< 0,1 %	-	-	-				
- Sulphuric Acid	H ₂ SO ₄	Gas	All	+	+	+				
Heptane	C ₇ H ₁₆	Technically pure	100%	+	/	-	1	4	1	4
Hexane	C ₆ H ₁₄	Technically pure	100%	+	/	/	1	4	1	4
Hydrazine Hydrate	NH ₂ -NH ₂ H ₂ O	Aqueous solution	Solution	+	+	+	2	1	1	
Hydrobromic Acid	HBr		10%	+	+	+	3	2	1	3
Hydrobromic Acid	HBr		48%	+	+	+	4	1	1	4
Hydrochloric Acid	HCl	Aqueous solution	10%	+	+	+				
Hydrochloric Acid	HCl	Aqueous solution	30%	+	+	+	2/3	1	2	2/3
Hydrochloric Acid	HCl	Aqueous solution	5%	+	+	+				
Hydrochloric Acid	HCl	Aqueous solution	Saturated	+	+	+				
Hydrocyanic Acid	HCN	Aqueous solution	Solution	+	+	+	2	2	1	2
Hydrocyanic Acid	HCN	Technically pure		+	+	+	2	2	1	2
Hydrofluoric Acid	HF	Aqueous solution	10%	+	+	/	4	3	2/3	3
Hydrofluoric Acid	HF	Aqueous solution	40%	+	/	/	4	3	2/3	3
Hydrofluoric Acid	HF	Aqueous solution	70%	+	/	/	4	3	2/3	3
Hydrogen Gas	H ₂		100%	+	+	+	2	1	1	4
Hydrogen Peroxide	H ₂ O ₂	Aqueous solution	10%	+	+	+	2	1	1	2
Hydrogen Peroxide	H ₂ O ₂	Aqueous solution	50%	+	+	/	2	1	1	2
Hydrogen Peroxide	H ₂ O ₂	Aqueous solution	90%	+	-	-	2	1	1	2
Hydrogen Sulfide	H ₂ S	Aqueous solution	Saturated	+	+	+				
Hydrogen Sulfide	H ₂ S		100%	+	+	/				
Hydroquinone	C ₆ H ₄ O ₂	Aqueous solution	Saturated	+	+	+	3	4	2	4
Hydroxylamine Sulphate	(NH ₂ OH) ₂ -H ₂ SO ₄	Aqueous solution	All	+	+	+				
Iodine Dry And Wet	I ₂		3%	/	-	-	1	2	1	1
Iso-Octane	C ₈ H ₁₈		100%	/	/	-	1	4	1	4
Isopropyl Alcohol	(CH ₃) ₂ CHOH	Technically pure	100%	+	+	+	2	1	1	2
Isopropyl Ether	(CH ₃) ₂ CHOCH(CH ₃) ₂	Technically pure	100%	/	-	-	2/3	3	4	4
Lactic Acid	CH ₃ CHOHCOOH	Aqueous solution	<=28%	+	+	+	2	1	1	3
Lanoline			Comm. Comp.	+	+	+	1	4	1	4
Lard Oil			Comm. Comp.	+						
Lead Acetate	Pb(CH ₃ COO) ₂	Aqueous solution	Saturated	+	+	+	1	1	4	4
Lead Chloride	PbCl ₂	Aqueous solution	Saturated	+	+					
Lead Nitrate	Pb(NO ₃) ₂	Aqueous solution	Saturated	+			1	1	1	1
Lead Sulfate	PbSO ₄	Aqueous solution	Saturated	+	+	+				
Linseed Oil			Comm. Comp.			/	1	3	1	4
Lubricating Oils			Comm. Comp.	-			2	4	1	4
Lubricating Oils,Free Of Aromatic			Comm. Comp.	+	+	/	1	4	1	4
Magnesium Carbonate	MgCO ₃	Aqueous solution	All	+	+	+	1	1	1	1
Magnesium Chloride	MgCl ₂	Aqueous solution	Saturated	+	+	+	2	1	1	1
Magnesium Nitrate	Mg(NO ₃) ₂	Aqueous solution	Indetermined	+	+	+				
Magnesium Sulfate	MgSO ₄		Saturated	+	+	+	2	1	1	1
Maize Oil			Comm. Comp.	+	+	/	1	1	1	4
Maleic Acid	HOOC-CH=CH-COOH	Aqueous solution	Saturated	+	+	+	1	1	1	1
Malic Acid	HOOCCH ₂ CHOHCOOH	Aqueous solution	Saturated	+			1	4	1	2
Mercuric Chloride	HgCl ₂	Aqueous solution	Saturated	+	+	+	1	1	1	1



CHEMICAL RESISTANCE - POLYETHYLENE

Component			Concentration	Pipe and fittings			Elastomeric seals			
Name	Formula	Remark		HDPE			NBR	EPDM	FPM	SBR
				°C			°C	°C	°C	°C
				20	40	60	20	20	20	20
Mercuric Cyanide	Hg(CN) ₂	Aqueous solution	All	+	+	+				
Mercuric Sulfate	HgSO ₄	Aqueous solution	Saturated	+	+	+				
Mercurous Nitrate	HgNO ₃	Aqueous solution	Saturated	+	+	+				
Mercury	Hg	Technically pure	100%	+	+	+	1	1	1	1
Methane	CH ₄		100%	+			1	3	1	3
Methanesulfonic Acid	CH ₃ SO ₃ H	Aqueous solution	50%	/	/					
Methanesulfonic Acid	CH ₃ SO ₃ H	Technically pure	100%	-	-					
Methyl Acetate	CH ₃ COOCH ₃	Technically pure	100%	+			4	2	4	4
Methyl Alcohol	CH ₃ OH	Technically pure	100%	+	+	+				
Methyl Amine	CH ₃ NH ₂	Aqueous solution	32%	/			4	1	4	2
Methyl Bromide	CH ₃ Br	Technically pure	100%	/			4	4	1	4
Methyl Chloride	CH ₂ Cl	Technically pure	100%	/			4	3	1	4
Methyl Ethyl Ketone	CH ₃ COCH ₂ CH ₃		100%	+	/	-	4	2	4	4
Methylene Chloride	CH ₂ Cl ₂		100%	/			4	4	3	4
Milk			100%	+	+	+	1	1	1	1
Mineral oil			Comm. Comp.	/	/	-	1	4	1	4
Mixed Acids (Chromic, Sulphuric)	H ₂ CrO ₄ /H ₂ SO ₄ /H ₂ O		50/15/35%	-						
Mixed Acids (Sulphuric, Nitric)	H ₂ SO ₄ /HNO ₃ /H ₂ O		10/20/70%	/	/	/				
Mixed Acids (Sulphuric, Nitric)	H ₂ SO ₄ /HNO ₃ /H ₂ O		48/49/3	-	-	-				
Mixed Acids (Sulphuric, Nitric)	H ₂ SO ₄ /HNO ₃ /H ₂ O		50/50%	-	-	-				
Mixed Acids (Sulphuric, Phosphoric)	H ₂ SO ₄ /H ₃ PO ₄ /H ₂ O		30/60/10%	+	/					
Molasses			Comm. Comp.	+	/	/	1	1	1	1
Monochloroacetic Acid	ClCH ₂ COOH	Aqueous solution	50%	+	/	/	4	2		4
Monochloroacetic Acid Ethyl Ester	ClCH ₂ COOCH ₂ CH ₃	Technically pure	100%	+	+	+				
Naphthalene	C ₁₀ H ₈	Technically pure	100%	+	/	/				
Nickel Chloride	NiCl ₂	Aqueous solution	All	+	+	+	1	1	1	1
Nickel Nitrate	Ni(NO ₃) ₂	Aqueous solution	Saturated	+	+	+				
Nickel Sulfate	NiSO ₄	Aqueous solution	Solution	+	+	/	1	1	1	1
Nickel Sulfate	NiSO ₄	Aqueous solution	Saturated	+	+	+	1	1	1	1
Nicotine	C ₁₀ H ₁₄ N ₂		Indetermined	+	+	+				
Nitric Acid	HNO ₃	Aqueous solution	20%	+	/	/	4	4	2/3	4
Nitric Acid	HNO ₃	Aqueous solution	40%	/	-	-	4	4	2/3	4
Nitric Acid	HNO ₃	Aqueous solution	70%	-	-	-	4	4	2/3	4
Nitric Acid	HNO ₃	Technically pure	100%	-			4	4	2/3	4
Nitrobenzene	C ₆ H ₅ NO ₂		100%	+	/	/				
Nitroethane	CH ₃ CH ₂ NO ₂	Technically pure	100%	+	/	/	4	2	4	2
Nitromethane	CH ₃ NO ₂	Technically pure	100%	+	/	/	4	2	4	2
Nitrotoluene	CH ₃ C ₆ H ₄ NO ₂	Technically pure	100%	+	+	/				
Nitrous Gases	NO _x	Anhydrous	Solution	+	+	+	1	1	1	1
Oleic Acid	C ₁₇ H ₃₃ COOH	Technically pure	100%	+	+	/	2	3	1	4
Oleum	H ₂ SO ₄ +SO ₃		10%	-			4	4	1	4
Oleum	H ₂ SO ₄ +SO ₃		High	-			4	4	1	4
Oleum	H ₂ SO ₄ +SO ₃		Traces	-			4	4	1	4
Olive Oil			Comm. Comp.	+	+	/	1	4	1	4
Oxalic Acid	HOOC ₂ COOH	Aqueous solution	10%	+	+	+	1	1	1	1
Oxalic Acid	HOOC ₂ COOH	Aqueous solution	Saturated	+	+	+	1	1	1	1
Oxygen	O ₂		All	+	+	/	2	1	1	4
Ozone Gas	O ₃	Aqueous solution	Saturated	/	-		4	1	1	4
Ozone Gas	O ₃		>2%	/	-		4	1	1	4
Palmitic Acid	CH ₃ (CH ₂) ₁₄ COOH		70%	/	-	-				
Paraffin Emulsion		Water-emulsie	Comm. Comp.	/	/	/	1	4	1	4
Paraffin Oil			Comm. Comp.	+	+	+	1	4	1	4
Peanut Oil			Comm. Comp.	+			1	3	1	4
Perchloric Acid	HClO ₄	Aqueous solution	10%	+	+	+	4	1	1	4
Perchloric Acid	HClO ₄	Aqueous solution	70%	+	/	-	4	1	1	4
Perchloric Acid	HClO ₄	Aqueous solution	10%	+	+		4	1	2	4

CHEMICAL RESISTANCE - POLYETHYLENE

Component			Concentration	Pipe and fittings			Elastomeric seals				
Name	Formula	Remark		HDPE			NBR	EPDM	FPM	SBR	
			°C			°C	°C	°C	°C		
			20	40	60	20	20	20	20		
Petroleum		Technically pure	100%	+	+	/	1	4	1	4	
Petroleum Ether		Technically pure	100%	+	/	/	1	4	1	4	
Phenol	C ₆ H ₅ OH	Aqueous solution	1%	+	/		4	4	2	4	
Phenol	C ₆ H ₅ OH	Aqueous solution	90%	+	+		4	4	1	4	
Phenylhydrazine	C ₆ H ₅ NHNH ₂	Technically pure	100%	/	/	/	3	3	2	4	
Phenylhydrazine Hydrochloride	C ₆ H ₅ NHNH ₂ HCl	Aqueous solution	Saturated	+							
Phosphoric Acid	H ₃ PO ₄	Aqueous solution	25%	+	+	+	1	1	1	1	
Phosphoric Acid	H ₃ PO ₄	Aqueous solution	50%	+	+	+	1	1	1	1	
Phosphoric Acid	H ₃ PO ₄	Aqueous solution	85%	+	+	/	1	1	1	1	
Phosphorous Penta-Trichloride	PCl ₅ -PCl ₃	Technically pure	100%	+	/	/					
Phosphorous Pentoxide	P ₂ O ₅	Technically pure	100%	+	+	+					
Photographic Developer			Comm. Comp.	+			1	2	1	2	
Photographic Emulsion			Comm. Comp.	+	+						
Phthalic Acid	C ₆ H ₄ (COOH) ₂	Aqueous solution	50%	+	+	+					
Picric Acid	C ₆ H ₂ (OH)(NO ₂) ₃	Aqueous solution	1%	+	+	/	2	1	1	2	
Potassium Acetate	CH ₃ COOK	Aqueous solution	Saturated	+	+	+	1	1	2	4	
Potassium Bicarbonate	KHCO ₃	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Potassium Bichromate	K ₂ Cr ₂ O ₇	Aqueous solution	Saturated	+	+		2	1	1	2	
Potassium Bisulfate	KHSO ₄	Aqueous solution	Indetermined	+	+	+	1	1	1	1	
Potassium Borate	K ₂ BO ₃	Aqueous solution	Saturated	+	+	+					
Potassium Bromate	KBrO ₃	Aqueous solution	Saturated	+	+	/	1	1	1	1	
Potassium Bromide	KBr	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Potassium Carbonate	K ₂ CO ₃	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Potassium Chlorate	KClO ₃	Aqueous solution	Saturated	+	+	+	4	1	1	2	
Potassium Chloride	KCl	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Potassium Chromate	K ₂ CrO ₄	Aqueous solution	Saturated	+	+		2	1	1	2	
Potassium Cyanide	KCN	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Potassium Ferricyanide	K ₄ Fe(CN) ₆ ·3H ₂ O	Aqueous solution	Saturated	+	+	+					
Potassium Fluoride	KF	Aqueous solution	Saturated	+	+	+					
Potassium Hydroxide	KOH	Aqueous solution	<=60%	+	+	+	2	1	2/3	1	
Potassium Hypochlorite	KClO	Aqueous solution	Indetermined	+	/	/					
Potassium Iodide	KI	Aqueous solution	Saturated	+	+	+					
Potassium Nitrate	KNO ₃	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Potassium Perborate	KBO ₃	Aqueous solution	Indetermined	+	+	+					
Potassium Perchlorate	KClO ₄	Aqueous solution	Saturated	+	+	+	3	1	1	3	
Potassium Permanganate	KMnO ₄	Aqueous solution	10%	+	+	+					
Potassium Sulfate	K ₂ SO ₄	Aqueous solution	Saturated	+	+	/					
Potassium Persulfate	K ₂ S ₂ O ₈	Aqueous solution	Saturated	+	+	+					
Potassium Phosphates	K ₂ HPO ₄ KH ₂ PO ₄	Aqueous solution	All	+	+	+					
Acids											
Potassium Sulfate	K ₂ SO ₄	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Propane Gas	CH ₃ CH ₂ CH ₃		100%	+			1	4	1	4	
Propane Gas	CH ₃ CH ₂ CH ₃		100%	+			1	4	1	4	
Propionic Acid	CH ₃ CH ₂ COOH	Aqueous solution	50%	+	+	+	2	4	1	4	
Propyl Alcohol	C ₃ H ₇ OH	Aqueous solution	97%	+	+	+					
Propylene Glycol	CH ₃ CHOHCH ₂ OH	Technically pure	100%	+	+	+	2	1	1	1	
Propylene Oxid		Technically pure	100%	+			4	1	4	4	
Pyridine	C ₅ H ₅ N	Technically pure	100%	+	/	/	4	4	4	4	
Silicic Acid	H ₂ SiO ₃	Aqueous solution	All	+	+	+					
Silicone Oil			Comm. Comp.	+	+	/	1	1	1	1	
Silver Cyanide	AgCN	Aqueous solution	All	+	+	+					
Silver Nitrate	AgNO ₃	Aqueous solution	Saturated	+	+	+	1	1	1	1	
Silver Sulfate	Ag ₂ SO ₄	Aqueous solution	Saturated	+	+	+					
Soap		Aqueous solution	All	+	+	+	1	1	1	2	
Sodium Acetate	CH ₃ COONa	Aqueous solution	Saturated	+	+	+	2	1	4	4	
Sodium Alum	NaAl(SO ₄) ₂	Aqueous solution	Saturated	+	+	+					
Sodium Benzoate	C ₆ H ₅ COONa		Saturated	+	+	+					
Sodium Bicarbonate	NaHCO ₃	Aqueous solution	Saturated	+	+	+	2	1	1	1	
Sodium Bichromate	Na ₂ Cr ₂ O ₇	Aqueous solution	Saturated	+	+	+					

CHEMICAL RESISTANCE - POLYETHYLENE

Component			Concentration	Pipe and fittings			Elastomeric seals			
Name	Formula	Remark		HDPE			NBR	EPDM	FPM	SBR
				°C	°C	°C	°C	°C	°C	°C
				20	40	60	20	20	20	20
Sodium Bisulfate	NaHSO ₄	Aqueous solution	10%	+	+	+	1	1	1	2
Sodium Bisulfite	NaHSO ₃	Aqueous solution	100%	+	+	+	1	1	1	2
Sodium Bromate	NaBrO ₃	Aqueous solution	All	+	/					
Sodium Bromide	NaBr	Aqueous solution	Saturated	+	+	+				
Sodium Carbonate (Soda)	Na ₂ CO ₃	Aqueous solution	Saturated	+	+	+	2	1	1	1
Sodium Chlorate	NaClO ₃	Aqueous solution	All	+	+	+	2/3	2	1	4
Sodium Chloride	NaCl	Aqueous solution	Solution	+	+	+	1	1	1	1
Sodium Chloride	NaCl	Aqueous solution	Saturated	+	+	+	1	1	1	1
Sodium Chromate	Na ₂ CrO ₄	Aqueous solution	Solution	+						
Sodium Cyanide	NaCN	Aqueous solution	All	+	+	+	2	1	1	1
Sodium Disulphite	Na ₂ S ₂ O ₅	Aqueous solution	All	+			1	1	1	2
Sodium Ferrocyanide	Na ₄ FeC ₆ N ₆	Aqueous solution	Saturated	+	+					
Sodium Fluoride	NaF	Aqueous solution	Saturated	+						
Sodium Hydroxide	NaOH	Aqueous solution	10%	+	+	+	3	1	2	2
Sodium Hydroxide	NaOH	Aqueous solution	30%	+	+	+	4	1	3	2
Sodium Hydroxide	NaOH	Aqueous solution	50%	+	+	+	1	1	3	2
Sodium Hypochlorite	NaClO	Aqueous solution	12,50%	/	-		4	1	1	4
Sodium Hypochlorite	NaClO	Aqueous solution	3%	+	/	/	4	1	1	4
Sodium Iodide	NaI	Aqueous solution	All	+						
Sodium Metasilicate	Na ₂ SiO ₃	Aqueous solution	<5%	+	+	+				
Sodium Metasilicate	Na ₂ SiO ₃	Aqueous solution	Saturated	+	+	+	1	1	1	1
Sodium Nitrate	NaNO ₃	Aqueous solution	Saturated	+	+	+	1	1	1	1
Sodium Nitrite	NaNO ₂	Aqueous solution	Saturated	+						
Sodium Oxalate	Na ₂ C ₂ O ₄	Aqueous solution	Saturated	+						
Sodium Perborate	NaBO ₃	Aqueous solution	All	+			2	1	1	2
Sodium Perchlorate	NaClO ₄	Aqueous solution	Indetermined	+						
Sodium Peroxide	Na ₂ O ₂	Solution		+			2	1	1	2
Sodium Persulphate	Na ₂ S ₂ O ₈	Aqueous solution	Saturated	+	+	+				
Sodium Phosphate	Na ₃ PO ₄	Aqueous solution	Saturated	+	+	+	1	1	1	1
Sodium Phosphate Monoacid	Na ₂ HPO ₄	Aqueous solution	Saturated	+	+		1	1	1	
Sodium Sulfate	Na ₂ SO ₄	Aqueous solution	Saturated	+	+	+	1	1	1	1
Sodium Sulfide	Na ₂ S	Aqueous solution	Solution	+	+	+	2	1	1	3
Sodium Sulfide	Na ₂ S	Aqueous solution	Saturated	+	+	+	2	1	1	3
Sodium Sulfite	Na ₂ SO ₃	Aqueous solution	Saturated	+	+	+				
Sodium Thiocyanate	NaSCN	Aqueous solution	Indetermined	+	+	+				
Sodium Thiosulphate	Na ₂ S ₂ O ₃	Aqueous solution	Saturated	+	+	+	3	1	1	2
Stannic Chloride	SnCl ₄	Aqueous solution	Saturated	+	+	+	1	1	1	2
Stannous Chloride	SnCl ₂	Aqueous solution	Saturated	+	+	+	1	1	1	1
Stearic Acid	C ₁₇ H ₃₅ COOH	Technically pure	100%	+		/	1	1	1	1
Styrene	C ₆ H ₅ CH=CH ₂		100%	/	-	-	4	4	1	4
Sugar Syrup			Saturated	+	+	+	1	1	1	1
Sulfamic Acid	HSO ₃ NH ₂	Aqueous solution	20%	-						
Sulphur	S		100%	+	+	+				
Sulphur Dioxide Liquid	SO ₂	Aqueous solution	Saturated	+	+	+				
Sulphur Dioxide Liquid	SO ₂	Technically pure	100%	-						
Sulphur Dioxide Liquid	SO ₂	Technically pure	100%	+	+	+				
Sulphur Trioxide	SO ₃		100%	-						
Sulphuric Acid	H ₂ SO ₄	Aqueous solution	10%	+	+	+	2	1	2	2
Sulphuric Acid	H ₂ SO ₄	Aqueous solution	50%	+	+	+	4	1	2	4
Sulphuric Acid	H ₂ SO ₄	Aqueous solution	80%	+	+	/	4	2	2	4
Sulphuric Acid	H ₂ SO ₄	Aqueous solution	90%	/	/	-				
Sulphuric Acid	H ₂ SO ₄	Aqueous solution	96%	-	-	-	4	4	2	4
Sulphuric Acid	H ₂ SO ₄	Aqueous solution	98%	-	-	-				
Sulphuric Acid	H ₂ SO ₄	Technically pure	100%	-	-	-				
Sulphurous Acid	H ₂ SO ₃	Aqueous solution	Saturated	+	+	+	2	2	1	2
Tallow Emulsion			Comm. Comp.	+	/	/	2	2	1	4
Tannic Acid	C ₇₆ H ₅₂ O ₄₆	Aqueous solution	All	+	+	+	2	2	2	2
Tartaric Acid	COOH(CHOH) ₂ COOH	Aqueous solution	All	+	+	+				
Tetrachloroethane	CHCl ₂ CHCl ₂		100%	/	-		4	4	1	4

CHEMICAL RESISTANCE - POLYETHYLENE

Component			Concentration	Pipe and fittings			Elastomeric seals				
Name	Formula	Remark		HDPE			NBR	EPDM	FPM	SBR	
			°C			°C	°C	°C	°C		
			20	40	60	20	20	20	20		
Tetrachloroethylene	$Cl_2C=CCl_2$		100%	/	-		4	4	2	4	
Tetraethyl Lead	$Pb(C_2H_5)_4$	Technically pure	100%	+			2	4	1	4	
Tetrahydrofuran	$(CH_2)_4O$		100%	/	-		4	4	4	4	
Tetrahydronaphthalene	$C_{10}H_{12}$		100%	/							
Thionyl Chloride	$SOCl_2$	Technically pure	100%	-			2/3	1	1	2/3	
Thiophene	C_4H_4S		100%	/	/	/	4	4	4	4	
Toluene	$C_6H_5CH_3$	Technically pure	100%	/	-	-	4	4	2	4	
Toluic Acid	$CH_3C_6H_4COOH$		50%	/							
Transformer Oil			Comm. Comp.	+	/	/	2	4	2	4	
Tributylphosphate	$(C_4H_9)_3PO_4$	Technically pure	100%	+	+	+	4	2	3	4	
Trichlorethylene	$ClCH=CCl_2$	Technically pure	100%	-	-	-	4	4	2	4	
Trichloroacetic Acid	CCl_3COOH	Aqueous solution	50%	+	/	/	2	2	4	4	
Trichloroacetic Acid	CCl_3COOH	Technically pure	100%	+	/	-	2	2	4	4	
Trichloroethane	CH_2CCl_3	Technically pure	100%	/			4	4	1	4	
Tricresylphosphate	$(CH_3C_6H_4O)_3PO_4$	Technically pure	100%	+	+	+	4	2	2	4	
Triethanolamine	$N(CH_2CH_2OH)_3$	Technically pure	100%	+	+	/	3	1	4	2	
Trioctylphosphate	$(C_8H_{17})_3PO_4$	Technically pure	100%	/			4	1	2	4	
Turpentine Oil		Technically pure	100%	/	-	-	2	4	1	4	
Urea	NH_2CONH_2	Aqueous solution	<=10%	+	+	+	1	1	1	1	
Urea	NH_2CONH_2	Aqueous solution	33%	+	+	+	1	1	1	1	
Urine			Indetermined	+	+	+					
Vaseline Oil			Comm. Comp.	+	+	/	1		1	4	
Vegetable Oils and fats			Comm. Comp.	+	/		1	4	1	3	
Water	H_2O		100%	+	+	+	1	1	1	1	
Water	H_2O		100%	+	+	+	1	1	1	1	
Water	H_2O		100%	+	+	+	1	1	1	1	
Water	H_2O		100%	+	+	+	2	1	2	2	
Water	H_2O		100%	+	+	+	2	1	2	2	
Water, Rain	H_2O		100%	+	+	+	1	1	1	1	
Water, Salt	$H_2O+NaCl$	Saturated		+	+	+	1	1	1	1	
Water, Sea			100%	+	+	+	1	1	1	1	
Wine			Comm. Comp.	+	+	+	1	1	1	1	
Wine Vinegar		Technically pure	Comm. Comp.	+	+	+					
Xylene	$C_6H_4(CH_3)_2$		100%	-			4	4	2	4	
Zinc Acetate	$Zn(CH_3COO)_2$		Indetermined	+	+	+	2	1	4	4	
Zinc Chloride	$ZnCl_2$	Aqueous solution	Solution	+	+	+	2	1	1	2	
Zinc Chloride	$ZnCl_2$	Aqueous solution	Saturated	+	+	+	2	1	1	2	
Zinc Chromate	$ZnCrO_4$	Aqueous solution	Indetermined	+	+	+					
Zinc Cyanide	$Zn(CN)_2$	Aqueous solution	All	+	+	+					
Zinc Nitrate	$Zn(NO_3)_2$	Aqueous solution	Indetermined	+	+	+					
Zinc Sulfate	$ZnSO_4$	Aqueous solution	Solution	+	+	+	1	1	1	1	
Zinc Sulfate	$ZnSO_4$	Aqueous solution	Saturated	+	+	+	1	1	1	1	

The data is based on the latest data, Enviropipes takes no responsibility for incorrect data

