



**GENERAL SUMMARY AND LIMITS OF APPLICATION OF TYPICAL PIPEX MATERIALS**

Material	Abbreviation	General Chemical Resistance	Maximum Permissible Temperature	
			Constant	Short term
Polyethylene	PE	Generally same as PP-H but offers improved UV stability and abrasion resistance.		
High-density Polyethylene	HDPE	Resistant to hydrous solutions of acids, alkalis and salts als well as to a large number of organic solvents. Unsuitable for concentrated oxydizing acids.	60°C	80°C
Polypropylene, heat stabilised	PP-H	Chemical resistance similar to that of PE	90°C	110°C
Polyvinylidene Fluoride	PVDF	Resistant to acids, solutions of salt, alipatic, aromatic and chlorinated hydrocarbons, alcohols and halogens. Conditionally suitable for ketones, esters, ether, organic bases and alkaline solutions.	140°C	150°C
Ethylene-Chlorine-Trifluorethylene	ECTFE	Resistant to acids, solutions of salt, alipatic, aromatic and chlorinated hydrocarbons, alcohols and halogens. Conditionally suitable for ketones, esters, ether, organic bases and alkaline solutions.	140°C	150°C

**Key:**

- resistant +
- conditionally resistant o
- non-resistant -
- oxydazing property Ox
- stresscracking property S
- swelling property Q
- diffusion property D

**Disclaimer:** The following information is for guidance purposes only and Pipex take no responsibility for the accuracy of the information therein. A combination of pressure, temperature, media and application must be carefully considered when selecting materials; please contact Pipex to discuss your precise requirements and to receive expert advice.

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
1,1,2-Trifluoro-	$\text{FCl}_2\text{C}-\text{CClF}_2$	47	technically pure	20	o/S	o/S	+	
1,2,2-Trichloroethane				40				
- Freon 113				60				
				80				
				100				
				120				
Acetaldehyde	$\text{CH}_3-\text{CHO}(\text{C}_2\text{H}_4\text{O})$	21	technically pure	20	+	o	-	
				40	o	-		
				60				
				80				
				100				
				120				
			40% aqueous solution	20	+	+	-	
				40	+	+		
				60	o	+		
				80		o		
				100		-		
				120				
Acetic acid	$\text{CH}_3\text{COOH}$	118	technically pure, glacial	20	+/S	+/S	+	+
				40	+/S	+/S	o	+
				60	o	o	-	+
				80		-		+
				100				+
				120				
			50%, wässrig	20	+	+	+	+
				40	+	+	+	+
			50%, aqueous	60	+	+	+	+
				80			o	+
				100			o	+
				120				
			10%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	
Acetic acid anhydride	$\text{CH}_3-\text{CO}$ $\text{O}$ $\text{CH}_3-\text{CO}$	139	technically pure	20	+/S	+	-	+
				40	+	o		
				60	o			
				80				
				100				
				120				
Acetone	$\text{CH}_3-\text{CO}-\text{CH}_3$	56	technically pure	20	+/S	+	-	+
				40	+/S	+		+
				60	+			-
				80				-
			Resistance till lower than boiling point	100				-
				120				-
			up to 10%, aqueous	20	+	+	o	+
				40	+	+	o	+
				60	+	+	o	-
				80				-
				100				-
				120				-
Acrylic ester	$\text{CH}_2=\text{CH}-\text{CCOCH}_2\text{CH}_3$	100	technically pure	20	Q/S	+	-	
				40	Q/S	+		
				60	Q/S	+		
				80				
				100				
				120				
Acrylonitrile	$\text{CH}_2=\text{CH}-\text{CN}$	77	technically pure	20	+	+	-	+
				40	+	+		
				60	+	+		

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				80				
				100				
				120				
Adipic acid	HOOC-(CH <sub>2</sub> ) <sub>4</sub> -COOH	Fp. 153	saturated, aqueous	20 40 60 80 100 120	+/S +/S +/S	+ + + +	+     	+     
Alcoholic spirits (Gin, Whiskey, etc.)			approx. 40% ethyl alcohol	20 40 60 80 100 120	+ + +	+ + +	+     	
Allyl alcohol	H <sub>2</sub> C=CH-CH <sub>2</sub> -OH	97	96%	20 40 60 80 100 120	+/S +/S +/S	+ + +		
Aluminium chloride	AlCl <sub>3</sub>		10%, aqueous	20 40 60 80 100 120	+ + +	+ + + + o	+ + + + +	+ + + + +
		115	saturated	20 40 60 80 100 120	+ + +	+ + + + o	+ + + + +	+ + + + +
Aluminium sulphate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>		10%, aqueous	20 40 60 80 100 120	+ + +	+ + + + +	+ + + + +	+ + + + +
Ammoniac	NH <sub>3</sub>	-33	gaseous, technically pure	20 40 60 80 100 120	+ + o	+ + + + +	+ + o o +	+ + + + +
			resistance bad at dilution	100 120		+ +	o +	+ +
Ammonium acetate	CH <sub>3</sub> COONH <sub>4</sub>		aqueous, all	20 40 60 80 100 120	+ + +	+ + + + +	+ + + + +	+ +    
Ammonium carbonate	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub>		50%, aqueous	20 40 60 80 100 120	+ + +	+ + + + +	+ + + + +	+ + + + +
Ammonium chloride	NH <sub>4</sub> Cl	115	10%, aqueous	20 40 60 80 100 120	+ + +	+ + + + +	+ + + + +	+ + + + +

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
Ammonium hydrogen fluoride	NH <sub>4</sub> HF <sub>2</sub>		50%, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80				
				100				
				120				
Ammonium hydroxide	NH <sub>4</sub> OH		aqueous, cold saturated	20	+	+	-	+
				40	+	+		+
				60	+	+		+
				80				+
				100				+
				120				+
Ammonium nitrate	NH <sub>4</sub> NO <sub>3</sub>	112	10%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
			aqueous, saturated	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Ammonium phosphate	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>		aqueous, all	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Ammonium sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>		10%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
			aqueous, saturated	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Ammonium sulphide	(NH <sub>4</sub> ) <sub>2</sub> S		aqueous, all	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80				+
				100				+
				120				+
Amyl acetate	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> -OOCCH <sub>3</sub>	141	technically pure	20	+/S	o	+	+
				40	+/S	o	o	+
				60	+/S	-	o	-
				80				-
				100				-
				120				-
Amyl alcohol	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> -CH <sub>2</sub> -OH	137	technically pure	20	+	+	+	
				40	+	+	+	
				60	o	+	+	
				80		+	+	
				100		+	+	
				120			o	
Aniline	-NH <sub>2</sub>	182	technically pure	20	+/S	o	+	+
				40	+/S	o	o	+
				60	o/S	o	-	+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				80				+
				100				+
				120				
Aniline hydrochloride	-NH <sub>3</sub> +Cl		aqueous, saturated	20	+	+	+	
				40	+	+		
				60	o	o		
				80				
				100				
				120				
Anon				20				+
	see Cyclohexanon			40				+
				60				
				80				-
				100				-
				120				-
Antimony trichloride	SbCl <sub>3</sub>		90%, aqueous	20	+	+	+	+
				40	+	+	+	
				60	+	+	+	
				80				
				100				
				120				
Arsenic acid	H <sub>3</sub> AsO <sub>4</sub>		80%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		o	+	+
				120			+	+
Aqua regia	HNO <sub>3</sub> +HCl			20	-	-	o	+
				40				+
				60				+
				80				+
				100				+
				120				
Barium hydroxide	Ba(OH) <sub>2</sub>	102	aqueous, saturated	20	+	+	-	+
				40	+	+		+
				60	+	+		+
				80		+		+
				100		+		+
				120				+
Barium salts			aqueous, all	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120				+
Battery acid				20	+	+	+	+
	see Schwefelsäure 40%			40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120			+	
Beef tallow emulsion, sulphonated			usual commercial	20	+	+	+	+
				40			+	
				60			+	
				80				
				100				
				120				
Beer			usual commercial	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100				+
				120				+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
Benzaldehyde	H-CO	180	saturated, aqueous	20	+/S	+	+	+
				40	+/S	+	o	+
				60	+/S	+	-	-
				80				-
				100				-
				120				-
Benzene		80	technically pure	20	o/S	o/S	+	+
				40	o/S	-	o	+
				60			-	-
				80				-
				100				-
				120				
Benzine (Petrol)	C <sub>5</sub> H <sub>12</sub> bis C <sub>12</sub> H <sub>26</sub>	80-130	free of lead and aromatic compunds	20	+/S	o/Q/D	+	
				40	+/S		+	
				60	o/S	-	+	
				80			+	
				100			+	
				120			+	
Benzoic acid	O-COH	Fp.122	aqueous, all	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Benzyl alcohol	-CH <sub>2</sub> OH	206	technically pure	20	+	+	+	
				40	+	+	+	
				60	o	o	o	
				80			-	
				100				
				120				
Bisulfite	see Natriumbisulfite			20				
				40				
				60				
				80				
				100				
				120				
Bleaching Type	NaOCl+NaCl		12,5% active chlorine, aqueous	20	o/Ox	o/Ox	o	+
				40	-	-		+
				60				+
				80				+
				100				+
				120				+
Borax	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>		all aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120				+
Boric acid	H <sub>3</sub> BO <sub>3</sub>		all aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Brandy			usual	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			+	
				100			+	
				120				
Brine, sea water				20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				80		+	+	+
				100		+	+	+
				120			+	+
Bromine, liquid	Br <sub>2</sub>	59	technically pure	20	-	-	+	
				40			+	
				60			+	
				80			+	
				100			o	
				120				
Bromine, vapours	Br <sub>2</sub>		high	20	-	-	+	+
				40			+	+
				60			+	-
				80			+	-
				100			o	-
				120				-
Bromine water			saturated, aqueous	20	-	-	+	+
				40			+	+
				60			+	+
				80			+	
				100				
				120				
Butadiene	H <sub>2</sub> C=CH- CH=CH <sub>2</sub>	-4	technically pure	20	o/S	o/S	+	+
				40		-	+	+
				60		-	+	+
				80			+	+
				100			+	+
				120				+
Butane	C <sub>4</sub> H <sub>10</sub>	0	technically pure	20	+	+	+	+
				40	+	+		+
				60	+	+		+
				80				+
				100				+
				120				+
Butanediol	HO-CH <sub>2</sub> -CH <sub>2</sub> - CH <sub>2</sub> -CH <sub>2</sub> -OH	230	10%, aqueous	20	+	+		
				40	+	+		
				60	+	+		
				80				
				100				
				120				
Butanol	C <sub>4</sub> H <sub>9</sub> OH	117	technically pure	20	+/S	+	+	
				40	+/S	+	+	
				60	+/S	+	+	
				80		-	+	
				100			o	
				120				
Butyl acetate	CH <sub>3</sub> COOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	126	technically pure	20	+/S	o	+	+
				40			o	-
				60			-	-
				80				-
				100				-
				120				-
Butyl phenol	CH <sub>3</sub> HO- -C-CH <sub>3</sub> CH <sub>3</sub>	237	technically pure	20	o	+	+	+
				40			+	+
				60			+	+
				80			+	+
				100				+
				120				
Butylene glycol	HO-CH <sub>2</sub> -CH= CH-CH <sub>2</sub> -OH	235	technically pure	20	+/S	+	+	
				40	+/S	+	+	
				60	+/S	+	+	
				80			+	
				100				
				120				

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
Butylene liquid	C <sub>4</sub> H <sub>8</sub>		technically pure	20	-	-	+	+
				40				+
				60				+
				80				+
				100				+
				120				+
Butyric acid	O CH <sub>3</sub> -CH <sub>2</sub> - CH <sub>2</sub> -C OH	163	technically pure	20	+S	+	+	+
				40	+		+	+
				60	o		+	+
				80			+	+
				100			o	+
				120				+
Calcium chloride	CaCl <sub>2</sub>	125	saturated, aqueous, all	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Calcium hydroxide, slaked lime	Ca(OH) <sub>2</sub>	100	saturated, aqueous	20	+	+	o	+
				40	+	+	-	+
				60	+	+		+
				80		+		+
				100				+
				120				+
Calcium hypochlorite - chloride of lime	Ca(OCl) <sub>2</sub>		cold saturated, aqueous	20	+	+	o	+
				40	+	-	-	+
				60	+	-		+
				80				+
				100				+
				120				+
Calcium nitrate	Ca(NO <sub>3</sub> ) <sub>2</sub>	115	50% aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120				+
- carbon dioxide			all	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100			+	
				120			+	
Carbon dioxide (Carbonic acid)	CO <sub>2</sub>		technically pure, anhydrous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100			+	+
				120				+
Carbon disulphide	CS <sub>2</sub>	46	technically pure	20	o	o	+	+
				40				
				60				
				80				
				100				
				120				
- carbon monoxide			all	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100			+	
				120				
Carbon tetrachloride	CCl <sub>4</sub>	77	technically pure	20	-	-	+	+
				40			+	+
				60			o	+



Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				80				+
				100				+
				120				+
Caustic soda solution	NaOH		50%, aqueous	20	+	+	-	
				40	+	+		
				60	+	+		
				80		+		
				100		+		
				120				
Caustic soda solution	NaOH		up to 10%, aqueous	20	+	+	-	
				40	+	+		
				60	+	+		
				80		+		
				100		+		
				120				
				20	+	+	-	
				40	+	+		
			up to 40%, aqueous	60	+	+		
				80		+		
				100		+		
				120				
Chloral hydrate	CCl <sub>3</sub> -CH(OH) <sub>2</sub>	98	technically pure	20	+	o	-	+
				40	+			+
				60	+	-		-
				80				-
				100				
				120				
Chlorethanol - Ethylene chlorohydrine	CICH <sub>2</sub> -CH <sub>2</sub> OH	129	technically pure	20	+	+	+	
				40	+	+	o	
				60	+	+	o	
				80			-	
				100				
				120				
Chloric acid	HClO <sub>3</sub>		10%, aqueous	20	+	+	+	
				40	+	o	+	
				60	+			
				80				
				100				
				120				
			20%, aqueous	20	+	+	+	
				40	-	-		
				60				
				80				
				100				
				120				
Chloride of lime				20				
				40				
	see Calciumhypochlorit			60				
				80				
				100				
				120				
Chlorine	Cl <sub>2</sub>		moist, 97%, gaseous	20	-/S/Ox	-/S/Ox	-	+
				40				+
				60				+
				80				+
				100				+
				120				
			unhydrous technically pure	20	o/S/Ox	-/s/Ox	+	+
				40	-		+	+
				60	-		+	+
				80			+	+
				100			o	+
				120				-

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
			liquid	20	-/S/Ox	-/S/Ox	+	+
			technically pure	40				+
				60				+
				80				+
				100				-
				120				
Chlorine water			saturated	20	o	o	o	+
				40	o			+
				60				+
				80				+
				100				+
				120				
Chloroacetic acid, mono	ClCH <sub>2</sub> COOH	188	50%, aqueous	20	+/S	+	+	+
				40	+/S	+	o	+
				60	+/S	+	-	+
				80		+		+
				100		+		+
				120				
			technically pure	20	+	+	-	
				40	+	+		
				60	+	+		
				80		+		
				100		+		
				120				
Chlorobenzene	-Cl	132	technisch rein	20	o/S	o/S	+	+
				40			+	+
			technically pure	60			o	-
				80			-	-
				100				-
				120				-
Chloroform	CHCl <sub>3</sub>	62	technically pure	20	o	o	+	+
				40	o	-	+	+
				60	-		+	
				80			+	
				100				
				120				
Chloromethane - methyl chloride	CH <sub>3</sub> Cl	-24	technically pure	20	o	-	+	
				40			+	
				60			+	
				80				
				100				
				120				
Chlorosulphonic acid	ClSO <sub>3</sub> H	158	technically pure	20	-	-	o	+
				40			-	+
				60				-
				80				-
				100				-
				120				-
Chrome alum (chromium potassium sulphate)	KCr(SO <sub>4</sub> ) <sub>2</sub>		cold saturated, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+		
				80				
				100				
				120				
Chromic acid	CrO <sub>3</sub> +H <sub>2</sub> O		up to 50%, aqueous	20	o/S/Ox	o/S/Ox	+	+
				40	-	-	+	+
				60			+	+
				80			+	+
				100			o	+
				120			o	
			all, aqueous	20	o/S/Ox	o/S/Ox	+	+
				40			+	+
				60			+	+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				80			o	+
				100			o	+
				120				
Cider				20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80				
				100				
				120				
Citric acid	(COOH) <sub>3</sub> C(CH <sub>2</sub> ) <sub>2</sub>	Fp.	10%, aqueous	20	+	+	+	
	HO	153		40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120				
Clophene	-Cl	2	technically pure	20				
				40				
				60				
				80				
				100				
				120				
Coal gaz, benzene free				20	+	+	+	
				40				
				60				
				80				
				100				
				120				
Coconut fat alcohol			technically pure	20	+/S	+	+	
				40	o	+	+	
				60		o	+	
				80				
				100				
				120				
Coconut oil			technically pure	20	+	+	+	+
				40	+	+	+	+
				60	o	+	+	+
				80			+	+
				100			+	+
				120			+	+
Compressed air, containing oil				20	+	+	+	
				40	o/S	+	+	
				60		o/S	+	
				80				
				100				
				120				
Cooking salt				20				
				40				
	see Natrium- chlorid			60				
				80				
				100				
				120				
			technically pure, moist	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100				+
				120				+
Copper salts			all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120				

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
Corn oil			technically pure	20	+/S	+	+	
				40	+	+	+	
				60	o	o	+	
				80			+	
				100				
				120				
Cresol	CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> OH		up to 90%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	o	+	+	+
				80			o	+
				100				+
				120				-
Crotonic aldehyde	CH <sub>3</sub> -CH=CH- CHO	102	technically pure	20	+/S	+	+	
				40			o	
				60			-	
				80				
				100				
				120				
Cyanhydroxyde	see Cyan- wasserstoffsäure			20				
				40				
				60				
				80				
				100				
				120				
Cyclo hexane	C <sub>6</sub> H <sub>12</sub>	81	technically pure	20	+	+	+	+
				40	+		+	+
				60	+		+	+
				80			+	+
				100				+
				120				-
Cyclohexanone	H =O	155	technically pure	20	+/S	o	+	+
				40	+/S	o	o	+
				60	+/S	o	-	-
				80				-
				100				-
				120				-
Cyclohexanol	H -OH	161	technically pure	20	+	+	+	+
				40	+	+	+	+
				60	+	o	o	-
				80			o	-
				100			-	-
				120				-
Densodrin W				20			+	
				40				
				60				
				80				
				100				
				120				
Detergents			for usual wash- ing lathers	20	+	+	+	+
				40	+	+	+	+
				60	+/S	+	+	+
				80		+/S	+	+
				100			+	+
				120				+
Dextrine (starch gum)			usual commercial	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120			+	+
Dextrose	see Glucose			20				+
				40				+
				60				+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				80				+
				100				+
				120				+
Dibutyl ether	C <sub>4</sub> H <sub>9</sub> OC <sub>4</sub> H <sub>9</sub>	142	technically pure	20	o/S	o		
				40				
				60	-	-		
				80				
				100				
				120				
Dibutyl phthalate	COOC <sub>4</sub> H <sub>9</sub>	340	technically pure	20	+/S	+	+	
	COOC <sub>4</sub> H <sub>9</sub>			40	o	o	+	
				60	o	o	o	
				80		-		
				100		-		
				120				
Dibutyl sebacate	C <sub>8</sub> H <sub>16</sub> (COOC <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	344	technically pure	20	+/S	+	+	+
				40	o	o		+
				60				+
				80				+
				100				+
				120				
Dichloroacetic acid	Cl <sub>2</sub> CHCOOH	194	technically pure	20	+/S	+	+	
				40	+/S	+	+	
				60	o/S	o	o	
				80			-	
				100				
				120				
			50%, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			o	
				100			-	
				120				
Dichloroacetic acid methyl ester	Cl <sub>2</sub> CHCOOCH <sub>3</sub>	143	technically pure	20	+	+	o	
				40	+	+		
				60	+	+		
				80				
				100				
				120				
Dichlorobenzene	Cl	180	technically pure	20	o/S	o/S	+	+
	Cl			40			+	-
				60			+	-
				80			o	-
				100				-
				120				-
Dichloroethane				20	-/S	-		
				40				
	see Äthylenchloride			60				
				80				
				100				
				120				
Dichloroethylene	ClCH=CHCl	60	technically pure	20	-/S	o	+	+
				40			+	-
				60				-
				80				-
				100				-
				120				-
Diesel oil				20	+/S	o	+	
				40			+	
				60	o		+	
				80			+	
				100			+	
				120			+	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
Diethylamine	C <sub>2</sub> H <sub>5</sub> NH	56	technically pure	20	+	+	+	
				40			o	
	C <sub>2</sub> H <sub>5</sub>			60			-	
				80				
	100							
	120							
Diglycolic acid	HOOC-CH <sub>2</sub> -O-	Fp.	30%, aqueous	20	+	+	+	+
	CH <sub>2</sub> -COOH	148		40	+	+		
				60	+	+		
				80				
				100				
				120				
Di-isobutyl ketone	(CH <sub>3</sub> ) <sub>2</sub> CH) <sub>2</sub> CO	124	technically pure	20	+	+	+	+
				40			+	+
				60	-	-	o	
				80				
				100				
				120				
Dimethyl amine	CH <sub>3</sub> NH	7	technically pure	20	+	+	o	
	40			+		-		
	60			o				
	80							
	100							
	120							
Dimethyl formamide	CH <sub>3</sub> HCON	153	technically pure	20	+/S	+	-	+
	40			+/S	+		+	
	60			o	+		+	
	80						+	
	100						+	
	120						-	
Dinonyl phthalate	COOC <sub>9</sub> H <sub>19</sub> COOC <sub>9</sub> H <sub>19</sub>		technically pure	20	+/S	+		
	40			+/S	-			
	60							
	80							
	100							
	120							
Dioctyl phthalate	COOC <sub>8</sub> H <sub>17</sub> COOC <sub>8</sub> H <sub>17</sub>		technically pure	20	+/S	+		+
	40			+/S	-		-	
	60				-		-	
	80						-	
	100						-	
	120						-	
Dioxane	O(C <sub>2</sub> H <sub>4</sub> ) <sub>2</sub> O	101	technically pure	20	+/S	o	-	+
				40	+/S	o		+
				60	+/S	o		o
				80		-		-
				100				-
				120				-
Drinking water	see Wasser			20				
				40				
				60				
				80				
				100				
				120				
Ethyl acetate	CH <sub>3</sub> COOCH <sub>2</sub> -CH <sub>3</sub>	77	technically pure	20	+/S/D	+/S	o	+
				40	o/S/D	o/S	-	+
				60	o	-		-
				80				-
				100				-
				120				-
Ethyl alcohol	CH <sub>3</sub> -CH <sub>2</sub> -OH	78	technically pure 90%	20	+/S	+	+	
				40	+/S	+	o	
				60	+/S	+	-	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				80		+		
			Resistance till lower than boiling point	100				
				120				
Ethyl alcohol + acetic acid (fermentation mixture)			technically pure	20	+/S	+/S	+	
				40	o/S	o/S	+	
				60	o/S		+	
				80			o	
				100				
				120				
Ethylbenzene	-CH <sub>2</sub> -CH <sub>3</sub>	136	technically pure	20	o/S	o/S	+	
				40	-	-/S		
				60		-/S		
				80				
				100				
				120				
Ethyl chloride	CH <sub>3</sub> -CH <sub>2</sub> -Cl	12	technically pure	20	o	o/S	+	+
				40	-	-/S	+	+
				60			+	+
				80			+	+
				100			o	+
				120				+
Ethyl ether	CH <sub>3</sub> CH <sub>2</sub> -O-CH <sub>2</sub> CH <sub>3</sub>	35	technically pure	20	o/S	+/S	+	+
				40			+	+
				60				+
				80				+
				100				+
				120				+
Ethylene chloride	ClCH <sub>2</sub> -CH <sub>2</sub> Cl	83	technically pure	20	o	o/S	+	+
				40		-/S	+	+
				60		-/S	+	+
				80			+	+
				100			o	+
				120			-	+
Ethylene diamine			technically pure					
	H <sub>2</sub> N-CH <sub>2</sub> -CH <sub>2</sub> -NH <sub>2</sub>	117		20	+	+	o	
				40	+	+	o	
				60	+	+	-	
				80				
				100				
				120				
Ethylene glycol	HO-CH <sub>2</sub> -CH <sub>2</sub> -OH	198		20	+/S	+/S	+	
				40	+/S	+/S	+	
				60	+/S	+/S	+	
				80		+	+	
				100		+	+	
				120			+	
Ethylene oxide	CH <sub>2</sub> -CH <sub>2</sub> O	10	technically pure, liquid	20	-	o	+	
				40			+	
				60			+	
				80			o	
				100				
				120				
Fatty acids, > C <sub>6</sub>	R-COOH		technically pure	20	+	+	+	
				40	+	+	+	
				60	o	o	+	
				80			+	
				100				
				120				
Fatty alcohol sulphonates			aqueous	20	+/S	+/S	+	
				40	+	+	+	
				60	+	o	+	
				80			+	
				100			+	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				120				
Fertilizer salts			aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			+	
				100				
				120				
Fluorine	F <sub>2</sub>		technically pure	20	-	-	-	
				40				
				60				
				80				
				100				
				120				
Fluosilicic acid	H <sub>2</sub> SiF <sub>6</sub>		32%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120				+
Formaldehyde - Formalin	HCHO		40%, aqueous	20	+/S	+	+	+
				40	+	+	+	+
				60	+	+	+	
				80			+	
				100				
				120				
Formamide	HCONH <sub>2</sub>	210	technically pure	20	+	+		
				40	+	+		
				60	+	+		
				80				
				100				
				120				
Formic acid	HCOOH	101	up to 50%, aqueous	20	+/S/D	+/S/D,	+	+
				40	+/S/D	+/S/D,	+	+
				60	+/S/D	+/S/D,	+	+
				80			+	+
				100			+	+
				120				+
			technically pure	20	+/S/D	+	+	+
				40	+/S/D	o	+	+
				60	+/S/D	-	+	+
				80			+	+
				100			+	+
				120				+
			aqueous, cold saturated	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Freon 113				20	-/S	-/S		+
				40				+
				60				
	see 1,1,2-Tri- fluor-1,2,2-Tri- chloräthan			80				
				100				
				120				
Frigen 12 (Freon 12)	CF <sub>2</sub> Cl <sub>2</sub>		technically pure	20	-/S	-/S	o	
				40				
				60				
				80				
				100				
				120				
Fruit juices				20	+	+	+	
				40	+	+	+	



Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				60	+	+	+	
				80		+	+	
				100			+	
				120			+	
Fruit pulp				20	+	+		
				40	+	+		
				60	+	+		
				80				
				100				
				120				
Fuel oil				20	+	+	+	
				40	o	o	+	
				60			+	
				80			+	
				100			+	
				120				
Furfuryl alcohol	O CH <sub>2</sub> OH	171	technically pure	20	+/S	+	+	
				40	+	+	+	
				60	o	o	o	
				80			-	
				100				
				120				
Gelatine			all, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+		+
				120				
Glucose	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	Fp. 148	all, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Glycerine	HO-CH <sub>2</sub> -CH- CH <sub>2</sub> OH OH	290	technically pure	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	
			all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	
Glycocol (glycin)	NH <sub>2</sub> -CH <sub>2</sub> - -COOH	Fp. 233	10%, aqueous	20	+	+	+	
				40	+	+	+	
				60			+	
				80			+	
				100				
				120				
Glycolic acid	HO-CH <sub>2</sub> -COOH	Fp. 80	37%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	o	+	
				80			+	
				100			+	
				120				
Glykol (Frostschutz)	siehe Äthylen- glykol see Äthylen- glykol			20				
				40				
				60				
				80				
				100				

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				120				
Heptane	C <sub>7</sub> H <sub>16</sub>	98	technically pure	20	+	+	+	+
				40			+	+
				60	o	o	+	+
				80			+	+
				100			+	+
				120				+
Hexane	C <sub>6</sub> H <sub>14</sub>	69	technically pure	20	+	+	+	+
				40			+	+
				60	o	o	+	+
				80			+	+
				100			+	+
				120				+
Hydrazine hydrate	H <sub>2</sub> N-NH <sub>2</sub> H <sub>2</sub> O	113	aqueous	20	+	+	-	
				40	+	+		
				60	+	+		
				80				
				100				
				120				
Hydrobromic acid	HBr	124	50%, aqueous	20	+/S	+/S	+	
				40	+/S	+/S	+	
				60	+/S	+/S	+	
				80			+	
				100			+	
				120				
- hydrochloric acid			all	20	+	+	+	
				40	+	+	+	
				60	+	o	+	
				80			+	
				100			+	
				120			+	
Hydrochloric acid	HCl		5%, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		o	+	
				100			+	
				120			+	
			10%, aqueous	20	+	+	+	
				40	+	+	+	
				60	+/S	o	+	
				80		o	+	
				100			+	
				120			+	
			up to 30%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+/S	+	+	+
				80		o/S	+	+
				100			+	+
				120				+
Hydrochloric acid	HCl		36%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+/S/D	+/S/D	+	+
				80			+	+
				100			+	+
				120				+
Hydrocyanic acid	HCN	26	technically pure	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			+	
				100				
				120				
Hydrofluoric acid	HF		70%, aqueous	20	+	+/S	+	
				40	+	+	+	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				60	o	o	+	
				80			+	
				100			+	
				120				
			50%, aqueous	20	+	+/S	+	+
				40	+	+	+	+
				60	o	+	+	+
				80		o	+	+
				100				+
				120				+
			up to 40%, aqueous	20	+	+/S	+	+
				40	+	+	+	+
				60	o	+	+	+
				80		o	+	+
				100			+	+
				120				+
Hydrogen	H <sub>2</sub>	-253	technically pure	20	+	+	+	+
				40	+	+	+	+
				60	+/D	+/D	+	+
				80			+	+
				100		-	+	+
				120				+
Hydrogen chloride	HCl	-85	technically pure, gaseous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			+	
				100			+	
				120				
Hydrogen peroxide	H <sub>2</sub> O <sub>2</sub>		10%, aqueous	20	+	+	o	
				40	+	+	o	
				60	+	+	-	
				80				
				100				
				120				
			30%, aqueous	20	+	+	o	+
				40	+	+	o	+
				60	+	o/Ox	-	
				80				
				100				
				120				

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
			90%, aqueous	20	+	-/Ox	o	+
				40	+			+
				60	-			
				80				
				100				
				120				
Hydrogen sulphide	H <sub>2</sub> S		technically pure	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120			+	+
			saturated,	20	+	+	+	+
			aqueous	40	+	+	+	+
				60	+	+	+	
				80			+	
				100			+	
				120			+	
Hydrosulphite				20				
				40				
	see Natrium-			60				
	dithionit			80				
				100				
				120				
Hydroxylamine sulphate	(H <sub>2</sub> NOH) <sub>2</sub> H <sub>2</sub> SO <sub>4</sub>		all, aqueous	20	+	+		
				40	+	+		
				60	+	+		
				80				
				100				
				120				
Iodine solution			6,5% iodine in	20	+	+	+	+
			ethanol	40	+	+	+	+
				60	o	o	+	+
				80				+
				100				+
				120				
Iron salts			all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100			+	
				120			+	
Iso-octane	(CH <sub>3</sub> ) <sub>3</sub> -C-CH <sub>2</sub> - -CH-(CH <sub>3</sub> ) <sub>2</sub>	99	technically pure	20	+	+	+	+
				40			+	+
				60	o	o	+	+
				80			+	+
				100			+	+
				120				+
Isopropanol	(CH <sub>3</sub> ) <sub>2</sub> CHOH	82	technically pure	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	o	
			resistance till up to boiling point	100		-		
				120				
Isopropyl ether	(CH <sub>3</sub> ) <sub>2</sub> CH-O-CH- -(CH <sub>3</sub> ) <sub>2</sub>	68	technically pure	20	o/S	o/S	+	+
				40			+	+
				60	-	-	+	
				80				
				100				
				120				
Kalilauge	KOH	131	50%, aqueous	20	+	+	-	
				40	+	+		
Caustic potash solution				60	+	+		

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
(potassium hydroxide)				80		+		
				100		+		
				120				
Lactic acid	CH <sub>3</sub> CHOHCOOH		10%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	o	
				80		+	o	
				100		+	-	
				120				
Lanolin			technically pure	20	+/S	+	+	
				40	o	+	+	
				60	o	o	+	
				80			+	
				100			+	
				120			+	
Lead acetate	Pb(CH <sub>3</sub> COO) <sub>2</sub>		aqueous, saturated	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			+	
				100			+	
				120				
Linseed oil			technically pure	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Liqueurs				20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100				
				120				
Lubricating oils				20	+	+	+	+
				40	+		+	+
				60	o		+	+
				80			+	+
				100			+	+
				120			+	+
Lubricating oils, free of aromatic compounds				20	+/S	+	+	
				40	+	+	+	
				60	o	o	+	
				80			+	
				100			+	
				120			+	
Magnesium salts			all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	
Maleic acid	(CHCOO) <sub>2</sub>	Fp. 131	cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120			+	+
Malic acid	HOOC-CH <sub>2</sub> -CH-COOH-OH	Fp. 131	1%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120				+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
Marmelade				20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	
Mercury	Hg		pure	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120			+	+
Mercury salts			cold saturated, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			+	
				100			+	
				120			+	
Methane	CH <sub>4</sub>	-161	technically pure	20	+	+	+	+
				40			+	+
				60			+	+
				80				+
				100				+
				120				+
Methanol	CH <sub>3</sub> OH	65	all	20	+	+	+	
				40	+	+	o	
				60	+	+	-	
				80				
				100				
				120				
Methyl acetate	CH <sub>3</sub> COOCH <sub>3</sub>	56	technically pure	20	+	+	+	
				40	+	+	o	
				60		+		
				80				
				100				
				120				
Methyl amine	CH <sub>3</sub> NH <sub>2</sub>	-6	32%, aqueous	20	+	+	o	+
				40				-
				60				-
				80				-
				100				-
				120				-
Methyl bromide	CH <sub>3</sub> Br	4	technically pure	20	o	-	+	+
				40			+	+
				60			+	+
				80				+
				100				+
				120				+
Methyl chloride	CH <sub>3</sub> Cl	-24	technically pure	20	o/S	-	+	+
				40			+	+
				60			+	+
				80				+
				100				+
				120				+
Methyl ethyl ketone	CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub>	80	technically pure	20	+	+	-	+
				40	+	o		+
				60	o	o		o
				80				-
				100				-
				120				-
Methylene chloride	CH <sub>2</sub> Cl <sub>2</sub>	40	technically pure	20	o/S	o	+	+
				40			o	+
				60			o	o

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				80				-
				100				-
				120				-
Milk				20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Mineral water				20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	
Mixed acids				20	-	-	+	
- sulfuric	H <sub>2</sub> SO <sub>4</sub>		50%	40				
- nitric	HNO <sub>3</sub>		50%	60				
- water	H <sub>2</sub> O		0%	80				
				100				
				120				
	H <sub>2</sub> SO <sub>4</sub>		10%	20	-	-	o	
	HNO <sub>3</sub>		87%	40				
	H <sub>2</sub> O		3%	60				
				80				
				100				
				120				
	H <sub>2</sub> SO <sub>4</sub>		50%	20	-	-	+	
	HNO <sub>3</sub>		31%	40				
	H <sub>2</sub> O		19%	60				
				80				
				100				
				120				
	H <sub>2</sub> SO <sub>4</sub>		50%	20	-	-	+	
	HNO <sub>3</sub>		33%	40				
	H <sub>2</sub> O		17%	60				
				80				
				100				
				120				
Mixed acids				20	+	+	+	
- sulphuric	H <sub>2</sub> SO <sub>4</sub>		10%	40	o	o	+	
- nitric	HNO <sub>3</sub>		20%	60			+	
- water	H <sub>2</sub> O		70%	80			+	
				100				
				120				
Mixed acids				20	+	+	+	
- nitric	H <sub>2</sub> SO <sub>4</sub>		30%	40	o	o	+	
- hydrofluoric	H <sub>3</sub> PO <sub>4</sub>		60%	60			+	
- sulphuric	H <sub>2</sub> O		10%	80			+	
				100				
Mixed acids	ClCH <sub>2</sub> COOC <sub>2</sub> H <sub>5</sub>	144	technically pure	20	+	+	o	
- sulphuric				40	+	+		
- phosphoric				60	+/S	+/S		
- water				80				
				100				
				120				
Molasses				20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100				+
				120				+
Molasses wort				20	+	+	+	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				40	+	+	+	
				60	+	+	+	
				80			+	
				100				
				120				
Monochloroacetic acid	$\text{ClCH}_2\text{COOCH}_3$	130	technically pure	20	+	+	+	
methyl ester				40	+	+	o	
				60	+/S	+/S		
				80				
				100				
				120				
Morpholin		129	technically pure	20	+	+	+	
				40	+	+	+	
				60	+	+	o	
				80				
				100				
				120				
Mowilith D			usual commercial	20	+	+	+	
				40				
				60				
				80				
				100				
				120				
Naphthalene	$\text{C}_{10}\text{H}_8$	218	technically pure	20	+/S	+	+	+
				40		+	+	
				60	o	+	o	
				80				
				100				-
				120				
Nickel salts			cold saturated, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	
Nitric acid	$\text{HNO}_3$		6,3%, aqueous	20	+	+	+	+
				40	+		+	+
				60	+	o	+	+
				80			+	+
				100			+	+
				120				
			up to 40%, aqueous	20	o/S	o/S	+	+
				40			+	+
				60	-	-	+	+
				80			+	+
				100			+	+
				120				
			65%, aqueous	20	o/S	-	+	+
				40	-		+	+
				60			+	o
				80			o	-
				100			-	-
				120				-
			100%	20	-	-	-	+
				40				+
				60				-
				80				-
				100				-
				120				-
Nitric oxide				20				
				40				
	see			60				
	Nitrose-Gase			80				



Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				100				
				120				
Nitrobenzene	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	209	technically pure	20	+/S	+/S	+	+
				40	o/S	o/S	o	+
				60	o/S	o/S	-	o
				80				-
				100				-
				120				-
Nitrotoluene (o-,m-,p-)		222- 238	technically pure	20	+	+	+	
				40	o	o	+	
				60	o/S	o/S	+	
				80			+	
				100			o	
				120				
Nitrous gases	NO <sub>x</sub>		diluted, moist and anhydrous	20	+/S	+/S	+	
				40	+/S	o/S	+	
				60	+/S	-/S	+	
				80			+	
			Depending on concentration	100			+	
				120				
- nitrous gases			traces	20	+	+	+	
				40	+	+	+	
				60	+	o	+	
				80			+	
				100			+	
				120				
Oleic acid	C <sub>17</sub> H <sub>33</sub> COOH	Fp. 16	technically pure	20	+	+	+	+
				40	+	+	+	+
				60	o	o	+	+
				80			+	+
				100			+	+
				120			+	+
Oleum	H <sub>2</sub> SO <sub>4</sub> +SO <sub>3</sub>		10% SO <sub>3</sub>	20	-	-	-	+
				40				-
				60				-
				80				-
				100				-
				120				-
Oleum vapours			traces	20	-	-	-	
				40				
				60				
				80				
				100				
				120				
Olive oil				20	+	+	+	
				40	+	+	+	
				60	o	+	+	
				80		+	+	
				100				
				120				
Oxalic acid	HOOC <sub>2</sub> COOH		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	o	o
				80				-
				100				-
				120				-
Oxygen	O <sub>2</sub>		all	20	+	+	+	+
				40	+	+	+	+
				60	o	o	+	+
				80			+	+
				100			o	+
				120			o	+
	O <sub>3</sub>		up to 2%, in air	20	o	o	o	+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
Ozone				40	-	-		+
				60				+
				80				+
				100				+
				120				
			cold saturated, aqueous	20	o	o	o	
				40	-	-		
				60				
				80				
				100				
				120				
Palm oil, palm nut oil				20	+	+	+	
				40	+	+	+	
				60	o	o	+	
				80			+	
				100			+	
120								
Palmitic acid	C <sub>15</sub> H <sub>31</sub> COOH	390	technically pure	20	+	+	+	+
				40	+	+	+	+
				60	o	o	+	+
				80			+	+
				100			+	+
120			+	+				
Paraffin emulsions			usual commercial aqueous	20	+	+	+	+
				40	+	+	+	+
				60	o	o	+	+
				80			+	+
				100			+	+
120				+				
Paraffin oil				20	+	+	+	
				40	+	+	+	
				60	o	o	+	
				80			+	
				100			+	
120			+					
Perchloric acid	HClO <sub>4</sub>		10%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
120								
			70%, wässrig	20	+	o	+	+
				40	o	-	+	+
				60	-		+	o
				80			+	
				100			+	
120								
Perchloroethylene - Tetrachloroethylene	Cl <sub>2</sub> C=CCl <sub>2</sub>	121	technically pure	20	o	o	+	
				40			+	
				60			+	
				80			o	
				100				
120								
Petroleum			technically pure	20	+	+	+	
				40	+	o	+	
				60	o/S	o/S	+	
				80			+	
				100			+	
120			+					
Petroleum ether		40- 70	technically pure	20	+	+	+	
				40	o	+	+	
				60	o	o	+	
				80			+	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				100			+	
				120				
Petroleum jelly	C <sub>22</sub> H <sub>46</sub> / C <sub>23</sub> H <sub>48</sub>		technically pure	20	+/S	+	+	+
				40	o		+	+
				60	-	o	+	+
				80			+	+
				100			+	+
				120			+	+
Phenol (carbolic acid)	C <sub>6</sub> H <sub>5</sub> OH	182	up to 10%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	o
				80			+	-
				100			+	-
				120				-
			up to 90%, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	o	
				80				
				100				
				120				
Phenyl hydrazine	C <sub>6</sub> H <sub>5</sub> NHNH <sub>2</sub>	243	technically pure	20	o	o	+	+
				40			+	+
				60				
				80				
				100				
				120				
Phenylhydrazine- hydrochloride	C <sub>6</sub> H <sub>5</sub> NHNH <sub>3</sub> Cl		aqueous	20		+	+	
				40		o	+	
				60		o	+	
				80				
				100				
				120				
Phosgene	COCl <sub>2</sub>	8	liquid, technically pure	20	o	o		
				40				
				60				
				80				
				100				
				120				
Phosgene	COCl <sub>2</sub>	8	gaseous, technically pure	20	o	o	+	
				40			+	
				60				
				80				
				100				
				120				
Phosphoric acid	H <sub>3</sub> PO <sub>4</sub>		up to 30%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100			+	+
				120			+	+
			50%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120			+	+
			85%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	o	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Phosphorous chlorides:			technically pure	20	+	o	-	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
- Phosphorous trichloride	PCl <sub>3</sub>	75		40	+	o		
- Phosphorous penta-chloride	PCl <sub>5</sub>	162		60	o	o		
				80				
- Phosphorus oxychloride	POCl <sub>3</sub>	105		100				
				120				
Phosphorous pentoxide	P <sub>2</sub> O <sub>5</sub>		technically pure	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120				
Photographic developer			usual commercial	20	+	+	+	
				40	+	+	+	
				60	o	+	+	
				80				
				100				
				120				
Photographic emulsions				20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80				
				100				
				120				
Photographic fixer			usual commercial	20	+	+	+	
				40	+	+	+	
				60		+	+	
				80				
				100				
				120				
Phthalic acid		Fp. 208	saturated, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			+	
				100			+	
				120				
Picric acid	C <sub>6</sub> H <sub>2</sub> (OH)(NO <sub>2</sub> ) <sub>3</sub>	Fp. 122	1%, aqueous	20	+	+	+	+
				40			+	
				60			+	
				80			+	
				100			+	
				120				
Potash	K <sub>2</sub> CO <sub>3</sub>		cold saturated, aqueous	20	+	+	+	+
- Potassium carbonate				40	+	+	o	+
				60	+	+	o	+
				80		+		+
				100		+		+
				120				+
Potassium/aluminium sulphates (alum)	K <sub>2</sub> SO <sub>4</sub> -Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> 12H <sub>2</sub> O	106	50%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120			+	+
Potassium bichromate	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	107	saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Potassium borate	K <sub>3</sub> BO <sub>3</sub>		10%, aqueous	20	+	+	+	+
				40	+	+	+	+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				60	+	+	+	+
				80		+		+
				100		+		+
				120				+
Potassium bromate	KBrO <sub>3</sub>		cold saturated, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	
Potassium bromide	KBr		all, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Potassium carbonat				20				+
				40				+
	see Pottasche			60				+
				80				+
				100				+
				120				+
Potassium chlorate	KClO <sub>3</sub>		cold saturated, aqueous	20	+	+	o	+
				40	+	+	-	+
				60	+	+		+
				80				+
				100				+
				120				+
Potassium chloride	KCl		all, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Potassium chromate	K <sub>2</sub> CrO <sub>4</sub>		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120				+
Potassium cyanide				20				
				40				
	see Kalium- cyanid			60				
				80				
				100				
				120				
Potassium cyanide	KCN		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	o	+
				80		+		+
				100		+		+
				120				+
Potassium iodide	KJ		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120				+
Potassium nitrate (saltpetre)	KNO <sub>3</sub>		50%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				120				+
Potassium perchlorate	KClO <sub>4</sub>		cold saturated, aqueous	20	+/Ox	+/Ox	+	+
				40	+	+	+	+
				60	+	+	+	
				80			+	
				100				
				120				
Potassium permanganate	KMnO <sub>4</sub>		cold saturated, aqueous	20	+/Ox	+/Ox	+	+
				40	+	+	+	+
				60	+	o	+	+
				80			+	+
				100			+	+
				120				+
Potassium persulphate	K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>		all, aqueous	20	+/Ox	+/Ox	+	+
				40	+	+	+	+
				60	+	+	+	
				80			+	
				100				
				120				
Potassium phosphate	KH <sub>2</sub> PO <sub>4</sub> und K <sub>2</sub> HPO <sub>4</sub>		all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+		
				120				
Potassium sulphate	K <sub>2</sub> SO <sub>4</sub>		all, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120				+
Propane	C <sub>3</sub> H <sub>8</sub>	-42	technically pure, liquid	20	+	+	+	+
				40	+	+	+	+
				60		+	+	+
				80				+
				100				+
				120				+
			technically pure, gaseous	20	+	+	+	+
				40	+	+	+	+
				60		+	+	+
				80				+
				100				+
				120				+
Propanol, n- and iso-	C <sub>3</sub> H <sub>7</sub> OH	97 resp. 82	technically pure	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			o	
				100				
				120				
Propargyl alcohol	CH=C-CH <sub>2</sub> -OH	114	7%, aqueous	20	+	+	+	
				40	+	+	o	
				60	+	+	o	
				80				
				100				
				120				
Propionic acid	CH <sub>3</sub> CH <sub>2</sub> COOH	141	50%, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80				
				100				
				120				
			technically pure	20	+	+	+	
				40	o	o	+	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				60	o	o	+	
				80				
				100				
				120				
Propylene glycol	CH <sub>3</sub> CH-CH <sub>2</sub> OH OH	188	technically pure	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80				
				100				
				120				
Propylene oxide	CH <sub>3</sub> CHCH <sub>2</sub>	35	technically pure	20	+	+	+	-
				40			o	-
				60				-
				80				-
				100				-
				120				-
Pyridine	C <sub>5</sub> H <sub>5</sub> N	115	technically pure	20	+	o	+	-
				40	o	o	-	-
				60	o	o		-
				80				-
				100				-
				120				-
Ramasit fabric waterproofing agents			usual commercial	20			+	
				40			+	
				60			+	
				80				
				100				
				120				
Silicone oil				20	+	+		
				40	+	+		
				60	+	+		
				80		+		
				100		+		
				120				
Silver salts			cold saturated, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120				
Soap solution			all, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+S	+S	+	+
				80			+	+
				100			+	+
				120				+
Soda				20				
				40				
	see			60				
	Natriumcarbonat			80				
				100				
				120				
Sodium acetate	CH <sub>3</sub> COONa		all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	o	
				120				
Sodium benzoate	C <sub>6</sub> H <sub>5</sub> COONa		cold saturated, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	o	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				120				
Sodium bicarbonate	NaHCO <sub>3</sub>		cold saturated, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120				
Sodium bisulphate	NaHSO <sub>4</sub>		10%, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	
Sodium bisulphite	NaHSO <sub>3</sub>		all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			+	
				100			+	
				120				
Sodium bromate	NaBrO <sub>3</sub>		all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120				
Sodium bromide	NaBr		all, aqueous	20	+	+	+	+
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	
Sodium carbonate - soda	Na <sub>2</sub> CO <sub>3</sub>		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120				+
Sodium chlorate	NaClO <sub>3</sub>		all, aqueous	20	+	+	o	+
				40	+	+		+
				60	+	+		+
				80		+		+
				100		+		+
				120				
Sodium chloride - cooking salt	NaCl		all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100			+	
				120			+	
Sodium chlorite	NaClO <sub>2</sub>		diluted, aqueous	20	+	+	+	
				40		o	+	
				60		o	+	
				80			+	
				100			o	
				120				
Sodium chromate	Na <sub>2</sub> CrO <sub>4</sub>		diluted, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120				
Sodium disulfite	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>		all, aqueous	20	+	+	+	
				40	+	+	+	



Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				60	+	+	+	
				80		+	+	
				100		+	+	
				120				
Sodium dithionite	Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>		up to 10%, aqueous	20	+	+	+	
- hydrosulfite				40	+	+	+	
				60	+	+	o	
				80		+		
				100		+		
				120				
Sodium fluoride	NaF		cold saturated aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120				
Sodium hypochlorite				20				
				40				
				60				
	<b>see Natronlauge</b>			80				
				100				
				120				
Sodium hypochlorite	NaOCl		12,5% active chlorine, aqueous	20	o	o	o	
				40	-	-		
				60				
				80				
				100				
				120				
Sodium iodide	NaJ		all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	o	
				80		+		
				100		+		
				120				
Sodium nitrite	NaNO <sub>2</sub>		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Sodium nitrate	NaNO <sub>3</sub>		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Sodium oxalate	Na <sub>2</sub> C <sub>2</sub> O <sub>4</sub>		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	o	+
				80		+		+
				100		+		+
				120				+
Sodium persulphate	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+		+
				100		+		+
				120				+
Sodium phosphate	Na <sub>3</sub> PO <sub>4</sub>		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	o	+
				100		+	-	+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				120				+
Sodium silicate	Na <sub>2</sub> SiO <sub>3</sub>		all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	o	
				80		+	-	
				100		+		
				120				
Sodium sulphate	Na <sub>2</sub> SO <sub>4</sub>		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Sodium sulphide	Na <sub>2</sub> S		cold saturated, aqueous	20	+	+	o	+
				40	+	+	o	+
				60	+	+	o	+
				80		+		+
				100		+		+
				120				+
Sodium sulphite	Na <sub>2</sub> SO <sub>3</sub>		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120				+
Sodium thiosulphate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		cold saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120				+
			up to 40%, aqueous	20	+	+	-	+
				40	+	+		+
				60	+	+		+
				80		+		+
				100		+		+
				120				+
Spindle oil				20	+	+	+	
				40	o	o	+	
				60	o	-	+	
				80			+	
				100				
				120				
Spinning bath acids containing carbon disulphide			100 mg CS <sub>2</sub> /l	20	+	+	+	
				40			+	
				60				
				80				
				100				
				120				
			200 mg CS <sub>2</sub> /l	20	+	+	+	
				40			+	
				60				
				80				
				100				
				120				
			700 mg CS <sub>2</sub> /l	20	+	+	+	
				40			+	
				60				
				80				
				100				
				120				
Stannous chloride	SnCl <sub>2</sub>			20	+	+	+	
				40	+	+	+	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				60	+	+	+	
				80		+	+	
				100		+	+	
				120				
Starch solution			all, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120				+
Starch syrup			usual commercial	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			+	
				100			+	
				120				
Stearic acid	C <sub>17</sub> H <sub>35</sub> COOH	Fp.	technically pure	20	+	+	+	
		69		40			+	
				60	o/S	o	+	
				80			+	
				100			+	
				120			+	
Succinic acid	HOOC-CH <sub>2</sub> -CH <sub>2</sub> -COOH	Fp.185	aqueous, all	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80				+
				100				+
				120				+
Sugar syrup			usual commercial	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	
Sulphur	S	Fp.	technically pure	20	+	+	+	+
		119		40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100			+	+
				120			+	+
- sulphur dioxide			traces					+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100			+	+
				120			+	+
Sulphur dioxide	SO <sub>2</sub>	-10	technically pure, anhydrous	20	+	+	o	+
				40	+	+	o	+
				60	+	+	-	+
				80				+
				100				+
				120				
			all, aqueous	20	+	+	+	+
				40	+	+	o	+
				60	+	+	-	
				80				
				100				
				120				
			technically pure, liquid	20	+	+	-	
				40				
				60				
				80				
				100				

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				120				
- sulphur trioxide			all	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		o	+	+
				100			+	+
				120			+	+
Sulphur trioxide	SO <sub>3</sub>			20	-	-	-	
				40				
				60				
				80				
				100				
				120				
- sulphuric acid			traces	20	+	+	+	+
				40	+	+	+	+
				60	+	o	+	+
				80			+	+
				100			+	+
				120				+
Sulphuric acid	H <sub>2</sub> SO <sub>4</sub>		up to 40%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120			+	+
			up to 60%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120			+	+
Sulphuric acid	H <sub>2</sub> SO <sub>4</sub>		up to 80%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+/S	+/S	+	+
				80			+	+
				100			+	+
				120			o	+
			90%, aqueous	20	o/S	o/S	+	+
				40			+	+
				60			+	+
				80			+	+
				100			o	+
				120				+
			96%, aqueous	20	o/S	o/S	+	+
				40			+	+
				60			+	+
				80			o	+
				100			-	+
				120				+
Sulphurous acid	H <sub>2</sub> SO <sub>3</sub>		saturated, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120				
Sulphuryl chloride	SO <sub>2</sub> Cl <sub>2</sub>	69	technically pure	20	-	-	o	
				40				
				60				
				80				
				100				
				120				
Tallow			technically pure	20	+	+	+	
				40	+	+	+	

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				60	+	+	+	
				80			+	
				100			+	
				120				
Tannic acid			all, aqueous	20	+	+		+
				40	+	+		+
				60	+	o		+
				80				+
				100				+
				120				+
Tanning extracts from plants			usual	20	+	+	+	+
				40				+
				60		o		+
				80				+
				100				+
				120				+
Tartaric acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	Fp. 170	all, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			+	+
				120			+	+
Tetrachloroethane	Cl <sub>2</sub> CH-CHCl <sub>2</sub>	146	technically pure	20	o	o	+	
				40			+	
				60			o	
				80				
				100				
				120				
Tetrachloroethylene				20				+
				40				-
	see Perchlor- äthylen			60				-
				80				-
				100				-
				120				-
Tetraethyl lead	(CH <sub>3</sub> CH <sub>2</sub> ) <sub>4</sub> Pb		technically pure	20	+	+	+	
				40			+	
				60			+	
				80			+	
				100			+	
				120			+	
Tetrahydrofurane	C <sub>4</sub> H <sub>8</sub> O	66	technically pure	20	o/S	o/S	o	-
				40			o	-
				60				-
				80				-
				100				-
				120				-
Tetrahydronaphthalene (tetralin)	C <sub>10</sub> H <sub>12</sub>	207	technically pure	20	-/S	-	+	
				40				
				60				
				80				
				100				
				120				
Thionyl chloride	SOCl <sub>2</sub>	79	technically pure	20	-	-	-	+
				40				+
				60				
				80				
				100				
				120				
Toluene	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	111	technically pure	20	-/S	o/S	+	+
				40		-	+	-
				60	-		o	-
				80			-	-
				100				-

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				120				-
Tributylphosphate	(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> PO <sub>4</sub>	289	technically pure	20	+	+	+	+
				40	+	+		+
				60	+	+		o
				80				-
				100				-
				120				-
Trichloroacetic acid	Cl <sub>3</sub> C-COOH	196	technically pure	20	+	+	o	+
				40	o	+		+
				60	-	+		o
				80				-
				100				-
				120				-
			50%, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	o	
				80			-	
				100				
				120				
Trichloroethane	Cl <sub>3</sub> -C-CH <sub>3</sub>	74	technically pure	20	o	o	+	
				40			+	
				60			o	
				80			-	
				100				
				120				
Trichloroethylene	Cl <sub>2</sub> C=CHCl	87	technically pure	20	-/S	-/S	+	+
				40			+	-
				60			+	-
				80			+	-
				100				-
				120				-
Trichloromethane	see Chloroform			20				
				40				
				60				
				80				
				100				
				120				
Tricresyl phosphate	(H <sub>3</sub> CC <sub>6</sub> H <sub>5</sub> O) <sub>3</sub> PO <sub>4</sub>		technically pure	20	+	+		+
				40	+			+
				60	+	o		+
				80				+
				100				+
				120				
Triethanolamine	N(CH <sub>2</sub> -CH <sub>2</sub> -OH) <sub>3</sub>	Fp. 21	technically pure	20	+	+	+	+
				40	+	+		-
				60	o/S	o		-
				80				-
				100				-
				120				-
Triethylamine	N(CH <sub>2</sub> -CH <sub>3</sub> ) <sub>3</sub>	89	technically pure	20	+	+	o	+
				40	o/S	o/S	o	+
				60			-	o
				80				-
				100				-
				120				-
Trioctylphosphate	(C <sub>8</sub> H <sub>17</sub> ) <sub>3</sub> PO <sub>4</sub>		technically pure	20	+	+		
				40	+	+		
				60				
				80				
				100				
				120				
Turpentine oil			technically pure	20	o	-	+	
				40	o			

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				60	o			
				80				
				100				
				120				
Urea	H <sub>2</sub> N-CO-NH <sub>2</sub>	Fp. 133	up to 30%, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80			+	+
				100			o	+
				120				+
Urine				20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80			+	
				100			+	
				120				
Vegetable oils and fats				20	+	+	+	
				40	o/S	+	+	
				60		o/S	+	
				80			+	
				100			+	
				120				
Vinegar			usual commercial	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100			+	+
				120				+
Vinyl acetate	CH <sub>2</sub> =CHOOCCH <sub>3</sub>	73	technically pure	20	+	+	+	+
				40	+	+	-	+
				60	o/S	o		o
				80				-
				100				-
				120				
Vinyl chloride	CH <sub>2</sub> =CHCl	-14	technically pure	20			+	
				40			+	
				60			+	
				80			+	
				100				
				120				
Viscose spinning solution				20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80				
				100				
				120				
- Wasser	CrO <sub>3</sub>		50g	20	-/S/Ox	-/S/Ox	+	
Chromic acid	H <sub>2</sub> SO <sub>4</sub>		15g	40			+	
- sulphuric acid	H <sub>2</sub> O		35g	60			+	
- water				80			o	
				100				
				120				
waste gases containing:				20	+	+	+	
- hydrogen fluoride				40	+	+	+	
				60	+	+	+	
			traces	80			+	
				100			+	
				120				
Water	H <sub>2</sub> O	100		20	+	+	+	+
- distilled				40	+	+	+	+
- deionised				60	+	+	+	+
				80		+	+	+
				100		+	+	+

Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
				120			+	+
Water, condensed				20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100			+	+
				120			+	+
Water, drinking water				20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100		+	+	+
				120			+	+
Water, waste water without organic solvent				20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100			+	+
				120			+	+
Wax alcohol	C <sub>31</sub> H <sub>63</sub> OH		technically pure	20	o	o	+	
				40	-	-	+	
				60			+	
				80				
				100				
				120				
Wetting agents			up to 5%, aqueous	20	+/S	+/S	+	
				40	+/S	+/S	+	
				60	+/S	+/S	+	
				80			+	
				100				
				120				
Wine vinegar			usual commercial	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100			+	+
				120				
Wines, red and white			usual commercial	20	+	+	+	+
				40	+	+	+	+
				60	+	+	+	+
				80		+	+	+
				100			+	+
				120				
Xylene	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub>	138-144	technically pure	20	o/S	o/S	+	+
				40			+	+
				60			o	+
				80			-	o
				100				-
				120				
Yeast			all, aqueous	20	+	+	+	+
				40	+	+	+	+
				60	+	o	+	+
				80			+	+
				100				+
				120				+
Yeast wort			working concentration	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80				
				100				
				120				
				20	-	-	+	+



Medium	Formula	Boiling point [°C]	Concentration	[°C]	PE	PP	PVDF	ECTFE
	H <sub>2</sub> SO <sub>4</sub>		48%	40				+
	HNO <sub>3</sub>		49%	60				+
	H <sub>2</sub> O		3%	80				+
				100				+
				120				+
				20	o	o	+	
	15%ige HNO <sub>3</sub>			40			+	
	5%ige HF			60			+	
	18%ige H <sub>2</sub> SO <sub>4</sub>			80				
				100				
				120				
Zinc salts			all, aqueous	20	+	+	+	
				40	+	+	+	
				60	+	+	+	
				80		+	+	
				100		+	+	
				120			+	