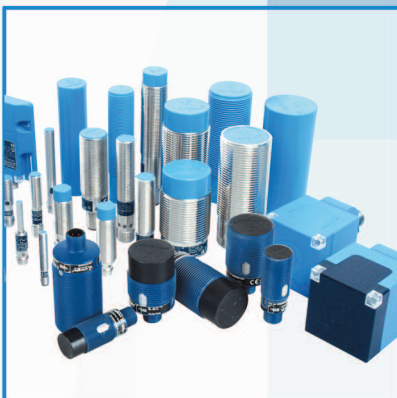


General Material Resistance



Introduction:

The following “Resistance Table”, as well as the “Media Viscosity” table, are intended to facilitate the selection of suitable sensors when using wenglor products. The tables have been prepared on the basis of specifications supplied by various raw materials manufacturers. Included values refer exclusively to laboratory tests conducted with the listed raw materials. Chemical resistance of the materials used by wenglor depends upon many factors such as temperature, concentration, design features and the influence of mechanical forces. Even minimal contamination of the respective liquid medium may significantly influence the material’s resistance. Due to the fact that neither all of the operating conditions under which wenglor products are used, nor all of the applications in which they are implemented, can be taken into consideration, the table may only be used for orientation purposes. Unfortunately, we are unable to offer any guarantee with respect to the information included in the table for this reason.

Usual commercial purity and concentrations are assumed for the liquids listed in the following resistance table. As a rule, reduced levels of resistance must be reckoned with for plastics and elastomers at higher temperatures. Please feel free to contact us if you have any doubts about your application.

Explanation of utilized symbols:

- +** Minimal or no impairment of the material
- °** Slight to moderate impairment
- Great impairment to complete destruction
- L** Danger of pitting or stress corrosion cracking

Material Designations:

Designation	Brief Description
Metals	
1.4301 per DIN 17440 (V2A stainless steel)	Non-corroding steel
1.4305 per DIN 17440 (V2A stainless steel)	Non-corroding steel
1.4401 per DIN 17440 (V4A stainless steel)	Non-corroding steel
1.4404 per DIN 17440 (V4A stainless steel)	Non-corroding steel
CuZn40Pb3	Brass
Al	Aluminum
Plastics	
NBR	Acrylonitrile-butadiene rubber
PMMA	Polymethyl methacrylate (Plexiglas®)
PC	Polycarbonate
PP	Polypropylene
PTFE	Polytetrafluoroethylene (Teflon®)
SAN	Styrene acrylonitrile
PS	Polystyrene
PBT	Polybutylene terephthalate
Grivory® (GV)	Partially aromatic polyamide
ABS	Acrylonitrile-butadiene styrene
PA	Polyamide (Nylon®)
PVC	Polyvinyl chloride
PUR	Polyurethane
Vitralit® (VBB-1)	Glue, urethane acrylate base
Silikon	Silicone rubber
EPDM	Ethylene propylene rubber
FPM	Fluorine polymer

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.:1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Exhaust gases - hydrogen fluoride containing		o	o	o			+	+		+	+						o	+		+			+	+	
Exhaust gases - carbon dioxide containing		o	+	+			+			+	+						+	+					+	+	
Exhaust gases - carbon monoxide containing		+	+	+			+										+			+			+	+	
Exhaust gases - nitrose containing		+	+	+			o			+	+						-	+		+			+	+	
Exhaust gases - hydrochloric acid containing	+L	-	+L	+L			o	+		+	+						-	+		+			+	+	
Exhaust gases - sulfur dioxide containing (dry)	+	+	+	+			o			+	+						o	+		+			+	+	
Exhaust gases - sulfur trioxide containing (dry)		+	+	+			o				+						+			+			+	+	
Exhaust gases - sulfuric acid - (sulfur trioxide, moist)		o	+	+			-			-	+						-	+		+			+	+	
Wastewater		+	+	+			+																		
Acetaldehyde		+	+	+	+		-	-	-	o	+	-	-				o	-		-			+	+	o
Acetaldehyde, 40%							-			o	+	-	-		o									+	+
Acetamide							+		-	+	+	+	+			+	+	-		-		+	+	-	+
Ethyl acetoacetate		+	+	+			-										+			-			-		
Acetone	+	+	+	+	+	+	-	-	-	+	+	-	-	o	o	-	+	-		-			+	+	-
Acetone nitrile							-		-	o			o				+	-					-	o	
Acetophenone		+	+	+			-			+	+		+	+		-	+	-	-	-			+	-	
Acetyl acetone		+	+	+			-							o			+			-		-	-	-	
Acetyl chloride	+L	-	+L	+L		-	-		-	o	+						-						-	-	
Acetylene		+	+	+			-		+	+	+	o		+			+	+	-	+			+	+	
Acetylene tetrachloride																	+				+				
Acetylsalicylic acid	+	+	+	+		+				+	+	+	+			+	+							o	-
Acronal dispersions		+	+	+			-							+			o			-			+	+	
Acryl nitrile, pure	+		+	+		+	-		-	o	+		-				+	-	-	-			o	+	o
Acrylonitrile		+	+	+	+		-										o								
Acrylic acid ethyl ester		+	+	+			-													-			+	-	-
Adipic acid		+	+	+	+	+	+		+	+	+		+				+	+	+	+			-	+	+
Aero Lubriplate			+	+			+																		
Aerosafe 2300			+	+			-																		
Aerosafe 2300 W			+	+			+																		
Aeroshell 17, lubricant			+	+			+																		
Aeroshell 1AC, lubricant			+	+			o																		
Aeroshell 7 A, lubricant			+	+			o																		
Aeroshell 750			+	+			o																		
Storage battery acid, 20%	+	o	+	+		o	o		+	+	+		+		-		-		o	+				+	+
Alum		o	+	+	-		+	+							o	+	+			+			+	+	+
Albumin, pure		+	+	+			+										+			+			+		
Alcohol, denatured			+	+			+																		
Allyl alcohol	+	+	+	+		+	o			+	+	-	+	+	o	-	o	+	-	-			-	o	-
Aluminum acetate	+	+	+	+		+	o			+	+			+			+	+	+	o			-	+	+
Aluminum ammonium sulfate	+		+	+		+	+			+	+						o						+		
Aluminum chloride	-	-	o	o	-	-	+	+	+	+	+	+	+			+	o	+		+		+	+	+	+
Aluminum fluoride		-	-	-		+	+			+	+						+	+	+	+			+	+	+
Aluminum hydroxide	+		+	+			+		+	+	+	+	+	+			+	+	+	+			+	+	+
Aluminum nitrate	+	+	+	+	o	-	+		+	+	+		+				+	+	+	+		+	+	+	+
Aluminum oxide			+	+	+	+	+		+	+	+	+	+				+	+	+	+		+		+	+

Chemical																										
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM	
Aluminum sulfate	o	o	+	+	-	+	+	+	+	+	+	+	+	+	+	+	o	+	+	+		+	+	+	+	
Formic acid	+	-	+	+		+	-		-	+	+	o			-		-	o	+	-			+	o	-	
Formic acid, 10%	+		+	+			-	+					+	+	-								+	+	+	
Formic acid, 10%, 50° C	o		+	+	-		-							o										o	o	
Formic acid, 40%	+		+	+				o			+	+	o		-	+								+	+	
Formic acid, 100° C	-		+	+	-		-		-			-	-							-				-	-	
Amines, mixed (e.g. allyl, ethyl, etc.)							-																			
Aminoacetic acid		+	+	+			o		+		+						o			+				+	+	
Ammonia	+	+	+	+	-		o	+	-						o	+	+			-			o	+	+	
Ammonia, 10%															+	+	+				+	o	+	+		
Ammonia gas, hot		+	+	+			-								-											
Ammonia gas, cold		+	+	+			+																	+	+	
Ammonia water		+	+	+			-	+									+			+				+	+	
Ammonium							o								+											
Ammonium acetate, aqueous		+	+	+		+	+		+	+	+		+				+	+		+			-	+	+	
Ammonium bromide, 10%							+								+											
Ammonium carbonate	+	+	+	+		+	-		o	+	+	+	+	+	+	+	+	+	+	+			o	+	o	
Ammonium chloride	+L	o	+L	+L	-	o	+		+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	
Ammonium citrate, aqueous		+	+	+			+										o			+				+		
Ammonium fluoride, aqueous	+	o	+	+			+		-	+	+						+			-				+	+	
Ammonium fluorsilicate, aqueous		+	+	+			+										o			+				+		
Ammonium formate, aqueous		+	+	+			+											+		+				+		
Ammonium hydroxide	+	+	+	+	-	+	o		-	+	+	+	+	+			o	+	+				+	+	-	
Ammonium nitrate	+	+	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	
Ammonium nitrite							+			+	+			+	+	+	+						+	+		
Ammonium oxalate	+	-	+	+		+	+		+	+	+		+	+	+	+		o	+		+			+	+	
Ammonium perchlorate		o	+	+											+									+	+	
Ammonium persulfate		o	o	o	-		-			+	+				+			-		+			o	+		
Ammonium phosphate		+	+	+			+			+	+				+		+			+			+	+	o	
Ammonium rhodanide		+	+	+			+			+				+		+	+			+				+		
Ammonium sulfate	+	o	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	
Ammonium sulfide		+	+	+		+	+		-	+	+			+			+	+	+	+		+		+	+	
Ammonium sulfite	+	o	+	+			+								+		+		+	+			+	+		
Amyl acetate	+	+	+	+	+	+	-	-	-	o	+	-	o	+	+	+	-	+	-	-	-			o	o	-
Amyl alcohol	+	+	+	+	+	+	+		+	+	+		+	+	+	+	+	+	o				o	o	-	
Amyl naphthalene							-								+											
Amyl borate							+								+								-			
Amyl chloride	oL		oL	oL		o	-		-	-	+		-	+	+	+	+	-	-				o	-	+	
Amyl chloronaphthalene							-								+											
AN 0-6							+								+											
AN-0-3 grade M							+								+											
AN-0-366							+								+											
Pineapple juice		+	+	+						+	+		+			+	+			+						
Anderol L-774 (Diester)							o								+											
Anderol L-826 (Diester)							o								+											
Anderol L-829 (Diester)							o								+											
ANG-25 (diester base)							o								+											
ANG-25 (glycerin ester)							o								+											
Aniline	+	+	+	+	-	+	-	-	-		+		-	+	o	-	-	-	-	-			-	-	+	

Chemical																										
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM	
Anilin chlorhydrate, aqueous	-	-	-	-		-	o			+	+						-			o				o	+	
Aniline hydrochloride	-L	-L	-L	-L			-							+										o	o	
Aniline oil		+	+	+			-							+												
Anise								+				+					+	+								
Anisol		+	+	+		+	-		-	o	+		-	+	+	-	+			-			-	-	-	
Anon (cyclohexanone)		+	+	+			-							+	+	-	+			-		-	-	-	-	
Ansul ether 161.181							-							+												
Anthracene oil		+	+	+			-										+			-			-	-		
Anthraquinone sulfonic acid, aqueous		o	o	o			o													+			-	+		
Antifrogen-N		+	+	+			+										+			+			+	+		
Antimony chloride, aqueous	-	-	-	-		-	o		+	+	+						-			+		+	o	+	+	
Antimony trioxide							+							+										+	+	
AN-VV-0-366B hydraulic							+							+			o									
Apple juice, apple sauce		+	+	+					+	+	+	+	+			+	+			+				+	+	
Malic acid		+	+	+			+							+			+			+			+	+	+	
Apple wine	+	+	+	+			+									+	+			+				+		
Apricot juice		+	+	+																						
Arabic acid		+	+	+			+													+				+		
Argon		+	+	+			+							+			+			+		+	+	+		
Arochlor 1248							+							+												
Arochlor 1254							-							+												
Arochlor 1260							-							+												
Arsenous acid		+	+	+			+																+	+		
Arsenic acid	+	+	+	+		-	+	+	+	+	+	+	+	+	+		o	+	o	+			+	+	+	+
Arsenic trichloride		o	o	o			+							+			-			+				+		
Aryl silicate, aqueous		+	+	+			o																	o		
Ascorbic acid, aqueous						+	+			+	+						+			+				+		
Askarel transformer oil			+	+			o							+												
Aspargin acid, aqueous		+	+	+			+										+			+				+		
Asphalt			+	+			o							+			+					+	+			
Aspirin														+	+											
ASTM fuel A		+	+	+			+							+			+			+		-	-			
ASTM fuel B		+	+	+			+							+			+			o		-	-			
ASTM fuel C		+	+	+			o							+			+			o		-	-			
ASTM fuel D			+	+			o							+												
ASTM oil no. 1		+	+	+			+							+			+			+		o				
ASTM oil no. 2		+	+	+			+							+			+			+		o				
ASTM oil no. 3		+	+	+			+							+			+			+		-				
ASTM oil no. 4			+	+			o							+												
ASTM oil no. 5			+	+			+							+												
Ether			+	+			-	-																		
Essential oils		+	+	+			-										-			-			-	-		
Ethanol (spirit of wine)		+	+	+																						
Ethyl ether		+	+	+																						
Ethyl chloride		+	+	+																						
Ethyl glycol		-	+	+																						
ATL-857							o							+												
Atlantic Dominion F			+	+			+							+												
Atlantic Ulro transmission E			+	+			+							+												
Calcium oxide		o	+	+			+																			

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W.-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
Aurex 803R, Mobil			+				+							+											
Automatic transmission fluid		+	+	+			+							+											
Bacteria (DIN 53 739)														+											
Barbol B							-							+											
Barium chlorate, aqueous		+	+	+			+										-			+				+	
Barium chloride	+L	+	+L	+L	O	+	+			+	+	+	+	+		+	+	+	+	+			+	+	+
Barium hydroxide	+	+	+	+			+			+	+			+			O	+	+	+			+	+	+
Barium salts	+	+	+	+			+							+	+									+	+
Barium sulfide		+	+	+			+			+	+			+			O	+	+	+			+	+	+
Cotton seed oil	+	+	+	+			+			+	+			+		+	+			+			+	O	+
Bayol 35							+							+											
Bayol D							+							+											
Pickling solution			+	+			-							+											
Benzaldehyde	+		+	+	+	+	-	-	-	+	+	+	-	+	-	-	O	-	-	-			O	+	+
Benzidine sulfonic acids, aqueous		+	+	+			+										+			+			+		
Gasoline	+	+	+	+	+	+	O	+	O	O	+		-	+		-	+	+		+			-	-	O
Gasoline-benzene spirit		+	+	+	+												O			-			-	+	
Benzoic acid	+	+	+	+	+	+	O		-	+	+	+	+	+	O	+	-	+	+	+			-	O	+
Benzoic acid benzyl ester			+	+			-			+	+			+			+						-	+	+
Benzoic acid ethyl ester					+				-			-	-			-		-					-	+	+
Benzene	+	+	+	+	+	+	-	-	-	O	+		-	+	+	-	+	-		-			-	-	O
Benzene phenone			+	+			-																		
Benzene sulfonic acid, 10%			+	+			-																-	O	
Benzene sulfonic acid, aqueous		+	+	+		O	-			+	+						-	+		+			O	+	+
Benzyl alcohol	+	+	+	+	+	+	-		-	-	+	-	-		-	-	O	+					+	O	+
Benzyl butyl phthalate, aqueous		+	+	+			-										+			-			-		
Bergamot oil		+	+	+			-										-			-			-		
Succinic acid	+	+	+	+		+	+			+	+		+				O	+	+	+			O	+	+
Beeswax		+	+	+		+	+			+	+						O			+				+	
Beer	+	O	+	+		+	+	+		+	+		+		+		+	+	+	+			+	+	+
Beer wort			+	+		+	+																		
Bitumen (DIN 51 567)		+				+		-		+				+	+		+					+	O	-	+
Bitumen, > 100° C								O						O										-	
Hydrocyanic acid	+	O	+	+	-	+	O		-	+	+		+				-	+	+	+			O	O	+
Lead acetate	+	+	+	+		-	O		+	+	+	+	+			+	+		+	+		+	+	+	+
Bleaching liquid			O	O			O																		
Bleaching lye		O	O	O			-										-			+			+	+	+
Bleaching lye (aqueous, 12.5% active chlorine)		-												O	-									O	+
Lead nitrate	+	+	+	+			+			+	+	+	+		+	+	O			+			+	+	+
Lead sulfate			+	+			O			+		+	+			+	+						+	+	+
Lead tetraethyl		+	+	+			O										+			+			-	+	
Sugar of lead																						+			
Borax		+	+	+	+		O								+	+	+			+		+	+	+	+
Borofluorohydric acid		-	-	-			+										-			+				+	
Boric acid, aqueous	+	+	+	+	+	+	+		+	+	+					+	O			O			+	+	+
Boric acid, 10%	+	O	+	+		+	+		+	+	+	+	+	+	O		+	+	+					+	+
Boron trifluoride							O							-											
Brandy	+		+	+			+							+	+								+	+	+
Brake fluids		+	+	+			-		-	+	+	-	O	+	+	O	+	+	O	O			-	+	-

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
Bromine (vapor)																									
Bromine, water-free	-	-	-	-	+																				
Bromobenzene			+	+		+																			
Bromochlorodifluoromethane																									
Bromine water	-	-	-	-																					
Hydrobromic acid																									
Butadiene		+	+	+		+																			
Butane		+	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Butane, 2, 3-dimethyl			+	+		+																			
Butane dioles		+	+	+		+																			
Butanol		+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Butynediol		+	o	o		o																			
Butoxyl		+	+	+		+																			
Butter, buttermilk	+	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Butyric acid	+	o	+	+	o	+	-		-	-	+	-	-			-	o	+	-	o			+	-	o
Butyric acid, 20%														+	o									+	o
Butyl glycol			+	+			o											+							
Butyl acetate		+	+	+	+		-	-	-					o	+	-	+			-			o	-	-
Butyl acrylate	+		+	+		+	-	-	-	o	+	-	-	o	+		+	+	-					-	-
Butylamine			+	+		-				+													o	-	-
Butylene		+	+	+		o											+			+			o	o	
Butyl mercaptan			+	+		-																		-	+
Butyl phtalate		+	+	+		-								+			+			-				-	
Butyl stearate			+	+		o																	+	-	+
Butyl raldehyde			+	+		-											o						-	o	-
Calcium bicarbonate										+	+						+	+				+		+	+
Calcium bisulfite, aqueous	+	o	+	+		o				+	+						-			+			+	o	+
Calcium carbonate	+		+	+		+	+			+	+	+	+	+			+	+	+			+	+	+	+
Calcium chloride, aqueous	+L	o	+L	+L	-	o	+	+	+	+	+	+	+	+	+	+	o	+	+	o	+	o	+	+	+
Calcium hydroxide	+	+	+	+	-	o	+		-	+	+		+	+			+	+	+	+	+	+	+	+	+
Calcium hypochlorite and chlorinated lime	o	-	o	o		-	-	+	o	+	+	+	+	+	o		+	-	+	o	o		o	+	+
Calcium nitrate	+	o	+	+		+	+		+	+	+		+				+			+			+	+	+
Calcium phosphate	+		+	+		+	+		+	+	+	+	+	+			+	+					+	+	+
Campher (alcoholic solution), 50%										+				+	+		+								
Campher	+	+	+	+		+	-		+	+	+		+	+	+	+	+						-	-	
Campher oil, pure		+	+	+		+			-								+	-	-	+			o	+	
Carbolineum (tar oil)		+	+	+		o			+	+							+	+		+		+	-	+	+
carbolic acid (phenol)		+	+	+		o											-			+		o			
Caro's acid, aqueous		-	-	-		-											-		+				-		
Cellosolve		+	+	+		-										-	+			-			+	-	
Cellulose lacquers		+	+	+		-								+			+			-			o		
Cellulube A60			+	+		-																	-		
Cellutherm 2505A			+	+		o																			
Cetan (hexadecan)			+	+		+																			
Cetyl alcohol	+		+	+		+			+	+	+					+	-	+	o				+	+	
Quinine sulfate	+	+	+	+																					
Chlophene						+														-			o		
Chlorine, moist	-L	-L	-L	-L	-	-	-		-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	+	o
Chlorine, dry	+	-	+	+	+	-	-							-	-	-	-	-	-	-	-	-	-	-	+
Chloral hydrate		o	o	o		-	-		o	+				-	-	-	-	-	-	-	-	-	o	-	
Chlorobenzene	+	o	+	+		+	-		-	o	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Chlorine bleaching liquid		o	o	o			o							+	o	+	+			+			-	+	+
Chlorobromine methane			+	+			-							+	o		+						-		
Chlorobutadiene			+	+			-										+						-	o	
Chlorodifluoromethane, chlorodifluoroethane					+		-		o	-	+		-	+			+	+	-					+	-
Chlorine dioxide	o	o	o	o		o	-				+						-			+			o	-	o
Chloroacetic acid	-	o	-	-	-	-	-		o	+	+	o	+	-	-	o	-	-	-	o			-	o	-
Chloroethane	+L		+L	+L			-		-	o	+	-	-				+	-	-				-	o	
Chloroethanol, pure	+L	+	+L	+L			-		-	-	+						-			-			o	-	
Chlorine gas	+		+	+			-		-	-	+	-	-				-	-	-				o	+	
Chlorine gas, < 5%, gaseous		-													o										
Chlorinated lime	+L		+L	+L		-	-			+			+				-						o	+	+
Chloromethane, pure	+L	+	+L	+L		-	-			-	+	-	-				-	-	-	-			-	-	-
Chloronaphthalene	+	+	+	+			-			-							+			-			-	+	
Chloroform	+	+	+	+	+		-	-	-	-	+	-	-	-	-	-	-	-	-	-			-	-	o
Chlorophenol		+	+	+			-	-												o			-		
Chloromethylphenoxyacetic acid		+	+	+			+													+			+		
Chloric acid	-	-	-	-		-	-			-							-		+	+			+	-	
Chlorosulfuric acid	-	-	+L	+L	-		-		-	-	+	-	-	-		-	-	o	-	o			o	-	-
Chlorotoluene	+		+	+			-		-		+						+						-	-	
Chlorine water	+L	-	+L	+L	-	-	-	o	-	o	+	o	-			o	-	o	o	-			o	o	o
Hydrochloric acid gas	+L	-	+L	+L	-		-			+	+			-	-		-			+			+	+	+
Chlorxylenol, pure		+	+	+			-													o					
Choline chloride, aqueous							+													o			+		
Chrome alum (sodium chrome alum)	+	-	+	+			o		+	+	+						o	+		o			+	+	+
Chrome oxide			+	+			-																		
Chromic acid	+	-	-	-			-	-	o	o		o				o	-	+	+	+			-	-	+
Chromic acid, 10%	+		+	+	-	+	-		+	+	+		+	o	-				+				o	o	+
Chromium-sulfuric acid	+		+	+		-	-		-	-	+	-	-		-	o	-		-				-	+	+
Chrome sulfate		+	+	+																			+	+	
Chrome sulfate, aqueous	+	o	o	o			+										o			+					
Circo, lightweight process oil			+	+			+																		
Citral, pure		+	+	+			-										+						-		
City-Service 65, 120, 250			+	+			+																		
City-Service Kool-Motorenöl no. 140			+	+			+																		
City-Service Pacemaker no. 2			+	+			+																		
Clophen® A 60 / petroleum ether (1:1)		+	+	+				+						+			+	-					-	o	
Coca-Cola			+	+			-								+										
Crotonaldehyde	+		+	+		+	-			+	+							-					+	o	
Cumene	+		+	+		+	-		-	o			-										-	-	
Potassium cyanide, aqueous		+	+	+			+										+			+			+	+	+
Hydrogen cyanide	+	+	+	+																			+	+	+
Cyclanone		+	+	+		o	+			+	+						+			+			+	+	+
Cyclohexan, cycloheptan	+	+	+	+		+	o	o	o	o	+	+	-	+	+	+	+	+	+	+			-	-	+
Cyclohexanol (and ester)		+	+	+		+	o	-	o	+	+	+	o	+	+	+	+	+	-	o			o	-	-
Cyclohexanone		+	+	+	+	+	-	-	-	+	+	-	-	+	+	+	+	-	-	-			-	-	o
Cymene, pure	+	+	+	+		+	-		-				-				+			-			-	+	+

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.:1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Decahydronaphthalene, pure		+	+	+		+	-		-	o	+	o	-				+	+	o	+				-	+
Decalin®								o						o	+	o	+							-	+
Decan						+	o										+							-	+
Denatured alcohol			+	+			+																		
Desmodur T		+	+	+			-																	-	
Desmophene		+	+	+			+																	+	
Dextrin, aqueous	+	+	+	+		+	+		+	+	+	+	+				+	+	+			+	+	+	+
Dextrose, aqueous		+	+	+			+										+			+		+	+	+	+
D-glucose																	+								
Diacetone alcohol		+	+	+			-	-		+		-				-	o						+	+	-
Dibutyl phthalate	+	+	+	+		-	-	-			+		-	+	+		+		-	o				o	o
Dibutyl phthalate, 60°C			+	+		-				+	+			o											
Dibutyl sebacate		+	+	+			-			+		-	-				+		-	-			+	o	-
Dichlorobenzene (p-dichlorobenzene)					+		-		-	o	+	-	-	-		-	+		-				-	-	+
Dichlorethane	+	-	+	+			-		-						o		+			-			-	o	
Dichlorethylene	+L	+	+L	+L			-			o	+		-	-	-		o	-	-	-			-	-	o
Dichlormethane	+L	+	+L	+L	o	+	-		-	o	+	-	-				-	-	-	-			-	-	o
Dicyclohexyl ammonium nitrite		+	+	+			+																	+	
Diesel oil		+	+	+		+	o	+	o	+	+	+	o	+	+	+	+	+	o	o			o	-	+
Diethylen glycol			+	+	+	+	o	+	+	+	+	+	+			+	+	o					+	+	+
Diethylamine	+		+	+			-			+	+							o						o	-
Diethyl ether		+	+	+			-	-	-					+	+	-	+			-			-	-	-
Diethyl ketone									-	+	+	-	-			+	+	-							
Diisobutylene	+		+	+	+	+	o			+														-	+
Diisopropyl ketone			+	+			-																	+	-
Diglycol acid	+		+	+		o	-			+	+												o	+	+
Dimethylamine, pure		+	+	+			-		-	-	+						+	o	-	-			+	o	-
Dimethylbenzene																	+					+			
Dimethylether			+	+		+	-			-	+		-	+			+	o	-					-	-
Dimethylformamide, pure		+	+	+			-		-	+	+	-		+	o	-	+	o		-			o	o	-
Dimethyl sulfoxide (DMSO)									-	+			+	+			o	-							
Disodium tetraborate																	+					+			
Diocetyl phthalate		+	+	+	+		-	-	-					+	+		+			-				o	-
Diocetyl sebacate					+		-	o															o	+	o
Dioxane	+	+	+	+		+	-	-	-	o	+	-	-	+	+	-	+	o	-	-			-	o	-
Dioxane, 60° C														-						-					-
Diphyl (diphenyl, diphenyl ether)		+	+	+			-			-	+	-	-	-		-	+		-				-	-	o
Disulfur dichloride	+	-	+	+																				-	+
Dissolved acetylene (acetylene + acetone)		+	+	+			-										+			-				+	
Nitrous oxide		+	+	+			+										+			+				+	
Dodecanol			+	+			+																o	o	+
Dow Chemical ET378			+	+			-																		
Dow Corning 1208, 4050, 6620, XF-60			+	+			+																		
Dow Corning 3, 4, 11			+	+			+																		
Dow Corning 5, 33, 44, 200, 220, 510, 550, 705, 710			+	+			+																		
Dow Corning 55			+	+			+																		
Dow Guard		+	+	+			+																		

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.:1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Dow-Corning F60 fluid			+	+			+																		
Dow-Corning F61 fluid			+	+			+																		
Dowtherm 209		+	+	+			-																		
Dowtherm A		+	+	+			-																-		
Dowtherm E		+	+	+			-																		
DTE lightweight oil			+	+			+																		
Fertilizer																+	+					+		+	+
Inert gases (argon, helium, neon)		+	o	o			+							+			+			+				+	
Iron gall ink	o	+	+	+																	+			+	
Iron (II) chloride			+	+	-	-		+	+	+	+	+	+			+	o	+	+				+	+	+
Iron (III) chloride, neutral, 10%								+						+										+	+
Iron (III) chloride	-	-	-	-	-	-	+	+	+	+	+	+	+			+	o	+	+	+				+	+
Iron nitrate	+	+	+	+	-	-	+		+	+	+	+	+			+	+	+	+					+	+
Iron phosphate	+	+	+	+																				+	+
Iron sulfate	+	o	+	+	-	-	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+
Protein solutions		+	+	+			+							+			+			+			+	+	+
ELCO 28-EP, lubricant			+	+			+													+				+	
Developer fluids	+		+	+		+	+		+	+	+							-	+	+			+	+	+
Epoxy resins			+	+			-																		
Peanut oil			+	+			+			+	+		+		+	+								-	+
Crude oil, natural gas	+	+	+	+		+	o		+	+	+			+	+		+			o			o	-	+
Earth wax																		+				+			
Vinegar	+	+	+	+		+	-	+	+	+	+	+	+		o	-	-	+	o	+			+	+	o
Acetic acid, 10%	+		+	+	-	+	o	+	+	+	+	+	+	o	-		-	+	+		o	-	+	+	o
Acetic acid, 20%	+		+	+		+		o	+	+	+		+			+		+			o	o	o	+	o
Acetic acid, 95%	+	-	+	+		+	-	-	+	+	-	-	-	-		-	-	+	-				o	-	-
Acetic acid, max. 3%, 85° C	+	o	+	+		o	o		+	+	+	+	+					+							
Acetic acid, pure	+	-	+	+	-	+	-	-	-	+	+		-		-		o			o			o	-	-
Acetic acid anhydride	+	o	+	+			-	o	-	+	+		-		-		-	-	-	-			+	o	-
Acetic acid butylester						+	-		-	o	+	-	-			-	+	-	-					o	-
Acetic acid isopropyl ester					+											-								o	-
Acetic acid methyl ester	+		+	+			-		-	+	+	-	-			-	+	-	-					o	-
Esso Golden Gasoline			+	+			o																		
Esso WS2812 (MIL-L-7808A)		+	+	+			+																		
Esso XP90-EP, lubricant		+	+	+			+																		
Esso transmission fluid, type A		+	+	+			+																		
Esso fuel no. 208		+	+	+			+																		
Esso motor oil		+	+	+			+																		
Esstic 42, 43							+																		
Ethane		+	+	+			+							+			+			-			o	-	+
Ethanol	+	+	+	+	+	+	+	-	+	+	+	+	-	+	+	+	+	+	o	o			+	+	o
Ethanol, up to 30%	+		+	+		+		o		+	+	+	+			+	+	+						+	+
Ethanolamine, pure		+	+	+	+		-			+			-				+			o			o	o	-
Ether		+	+	+			-	-							+	-	+			-			-	-	-
Ethyl acetate		+	+	+		+	-	-	-	+	+	-	-	o	+		+	-	-	-			+	-	-
Ethyl acrylate					o		-			-	+						+	-	-				+	-	-
Ethyl alcohol, fermentation mash		+	+	+			+											o		+			+	+	+
Ethyl alcohol, denatured	+	+	+	+			o											o		+			+	o	
Ethyl alcohol + acetic acid		+	+	+			o											-						+	

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Ethyl gasoline		+	+	+			-			o	+						+								-
Ethyl bromide, water-free		+	+	+			-	-									+								+
Ethylene		+	+	+			o							+			+						+	-	o
Ethylene chloride	+L		+L	+L		+	-		-		+	-	-				o	-	-					o	o
Ethylene chlorhydrin		+	+	+			-										o								
Ethylene diamin		o	+	+		+	o			+	+						o	o		-			+	+	-
Ethylene glycol	+	+	+	+	+	+	+		+	+	+	+	+	+		+	o	+	o	+			+	+	+
Ethylene oxide		+	+	+		+	-		o	o			-	+			o	o		-				-	-
Ethyl ether	+		+	+	+	+	-		-	-	+	-	-	+			+	-	-				-	-	-
Ethyl formiate		+	+	+			-										+			-				o	
Dyehouse wetting agent		+	+	+			+													+				+	
Paint thinner, Duco			+	+			-																		
Ferriopotassium cyanide	+	+	+	+		+	+				+						+	+	+	+				+	+
Ferropotassium cyanide	+		+	+						+	+						+	+					+	o	+
Fatty alcohols		o	+	+			+							+			+			+				o	+
Fatty alcohol sulfates	+	+	+	+		o	+					+					o	+		+			-	-	+
Fats, oils	+	+	+	+			o	+			+			+		-	+	+	o	o	o	+	o	o	+
Fatty acids	+	-	+	+	-		o							+			+							-	
Varnishes		+	+	+			o										+			+					
Meat	+							+															-	-	+
Avgas, JP6 (MIL-J-25656)							+							o									-	-	o
Fluorine						-	-		-		+	-		-				+		o				-	
Fluorine, moist, pure		o	o	o													-			o				-	o
Fluorine, dry, pure		+	+	+			-										-			o				-	-
Fluoroboric acid		-	-	-			+										-			+			o	+	+
Fluorosilicic acid					-		o																		
Fluorlube (fluorine containing lubricant)			+	+			+																	-	
Hydrogen fluoride	o	-	-	-	-	-	-	-	-		+			-	-		-						-	-	o
Hydrofluoric acid	-	-	-	-	-	-	-		-	+	+	o					-			o			o	-	o
Hydrofluoric acid, 10%				-	-	-	+		+	+				+				+					+	+	o
Formaldehyde		+	+	+	o	+	o							+			+			+			o	-	
Formaldehyde, 40%	+			+		+		+							-				o				+	o	
Formaldehyde solution, 30%	+		+	+		+			+	+	+			+		+				o			o	o	
Formamide	+	-	+	+		+	-			+	+				o		o	-	-	+			-	o	+
Photo developers	+		+	+		+	+			+	+			+			-	+	+	+				+	+
Photo fixing baths	+		+	+		+	+		+	+	+			+			+	+	+					-	+
Freon 11(trichlorofluoromethane)			+	+			+							+		o	+							-	o
Freon 112 (difluorotetrachlorethane)			+	+			o										+							-	o
Freon 113 (trichlorotrifluoroethane)		+	+	+			+									o	+			-					
Freon 113 + aniline oil			+	+			+																+	o	
Freon 114 (dichlorotetrafluorethane)			+	+			+									o								-	o
Freon 114B2 (dibrominated tetrafluoromethane)			+	+			o										+							+	o
Freon 115 (chloropentafluorethane)			+	+			+										+							o	o
Freon 12 (dichlorodifluoromethane)			+	+			o	-		-	+	o	-				+	+	-						
Freon 12 + ASTM oil no. 2 (50:50)			+	+			+																	+	-

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
Freon 142B (difluorochloroethane)			+	+			o										+							-	o
Freon MF (F11)			+	+			o																	-	
Freon TF			+	+			+																		
Frigen 113									+					+		-								-	
Frigen 12 B 1		+	+	+			+										+			-			-	-	
Frigen 13		+	+	+			+													-			-	-	
Frigen 13 B 1 (bromotrifluoromethane)		+	+	+			+										+			-			-	-	
Frigen 22 (chlorodifluoromethane)		+	+	+			-	o	-	+			-		-	-	+	-		-			-	-	
Frigen 23		+	+	+			+													-			-	-	
Frigen 502		+	+	+			-										+		+				-	-	
Frigen substitute, HCFC 123		+	+	+			-																		
Frigen substitute, HCFC 134a		+	+	+																				+	+
Antifreeze	+		+	+			+			+	+		+				o						+	+	+
Fruit juices	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	o		+	+	+	+
Fructose	+		+	+			+	+	+	+	+	+	+	+			+								
Furaldehyde							-										o							o	-
Furfural	+				+	+				-					o	-									
Furfuraldehyde			o	o			-																+	o	-
Furfuryl alcohol					o		-			+	+	o				o	+	-	-						
Fyrquel A60							-							+			+	+					+	o	+
Tannic acid	+	+	+	+	+	+	o			+	+	+				+	+		+						
Galvanizing fluid, iron							+							+											
Galvanizing fluid, cobalt							+							+											
Galvanizing fluid, nickel		o	+	+			+										+		+						
Galvanizing fluid, silver							+							o										-	
Ammonia solution		+	+	+			+			+									o				+	+	+
Gelatin	+	+	+	+	+	+	+		+	+	+		+				+		+	+			-		
Transmission fluid, type A			+	+			+										+						+	+	+
Sodium sulfate		+	+	+			-																+	+	+
Glucose	+	+	+	+		+	+		+	+	+	+	+	+			+	+	+	+			+	+	+
Glycerin	+	+	+	+		+	+	+	o	+	+	+	+	+	+	+	+	+	+			+			
Glycerin acetate							o							+										+	+
Lysine, aqueous		+	+	+			o							+					+				+	+	+
Glycol, aqueous		+	+	+			+	+									o		+				-		
Glycol ethyl ether		+	+	+			-										+		-				+	o	
Glycolic acid, aqueous	+	o	+	+		+	+			+	+						-	+	+			+	+		
Glycerin, pure	+	o	+	+	+	+	o		o		+			+		+	+		o				-	+	
Trench water, acidic		+	+	+										+			+								
Gulf Harmony oils			+	+			+																		
Gulf Legion oils			+	+			+																		
Gulf Paramount oils			+	+			+																		
Gulf Crown lubricants			+	+			+																		
Gulf Endurance oils			+	+			+																		
Gulf FR fluids (emulsion)			+	+			+																		
Gulf safety oils			+	+			+																	o	
Hair shampoo		+	+	+			o										+		+						
Halowax oil		+	+	+			-																		
Hannifin Lube A		+	+	+			+																+		
Urine				+L												+	+					+		+	+
Uric acid	+		+	+		-	+		+	+	+						+	+	+						

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
Uric acid, 20%																									
Urea, aqueous	+	o	o	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Years		+	+	+		+	+			+	+						+	+		+			o	-	+
Heating oil, EL (DIN 51 603)	+		+	+	+	+	+		o	+	+	+	o		+	o	+	+	o	o					
Heating oil, lightweight		+	+	+		+																			
Heating oil, heavy		+	+	+	+		-																+	+	+
Helium	+	+	+	+		+	+			+	+			+			+			+			-	-	+
Heptane	+	+	o	o		+	+	+	+	+	+	+	-	+	+	o	+	+	-	+					
Hexafluorosilicic acid							+							+										+	
Hexamethylene tetramine	+	+	+	+			+					+	+				+			+			-	-	+
Hexane	+		+	+			+	+	+		+	+	-	+	+	o	+	+	-					+	+
Hexantriol-1, 2, 6							+			+	+	+	+			+	+	+	o			+			
HI-LO MS no. 1			+	+			-																		
Raspberry essence (flavoring)			+	+			-																		
Ammonium carbonate	+	+	+	+																			o	-	+
China wood oil (tung oil)			+	+		+	o							+						o				+	+
Honey							+	+	+	+	+					+									
Houghto-Safe 271 (water + glycol)		+	+	+			+																		
Houghto-Safe 620 (water + glycol)		+	+	+			+							-										+	
Humic acids		+	+	+			+										-			+			-		
Hydraulic fluid (water in oil) HSB		+	+	+			o										+			+			-		
Hydraulic fluid Organophosphate HSD			+	+			-							+			+			-				+	
Hydraulic fluid Polyglycol-water HSC		+	+	+			+										+			+			-		
Hydraulic fluid Water-oil emulsions (HSA)		+	+	+			o										+			+			-		
Hydraulic oil	+	+	+	+		+	+		+	+				+	+		+			+			o	+	-
Hydrazine	+	o	+	+		+	-			+	+						-	+					o	+	+
Hydrazine hydrate, aqueous	+					+	-			+	+			+			-	+		+					
Hydrazine sulfate		-	-	-										+				+					o	-	-
Hydroquinone	+	+	+	+			-			+	+	+	-	+		+	-	+		+					
Hydrolube (water / ethylene glycol)			+	+			+																+	+	+
Hydroxylaminosulfate, aqueous		+	+	+			+										+			+					
Hyjet							-							o										-	
Preservative oil		+	+	+			-													o					
Industron FF53							+							+									+	+	+
Isobutanol, pure		+	+	+	+	+	o		+	+		o	+				+	+	-						
Isobutyric acid							o																	o	+
Isobutyl alcohol			+	+			o									o									
Isododecan			+	+			+																o	-	+
Isooctane	+	+	+	+		+	+		+	+	+	+	o	+	+	+	+	+	-	+			+	+	+
Isopropanol		+	+	+	+		-		+	+	+	+	+	+	o	o	+	+	-	+		+	o	-	+
Isopropylbenzene			+	+			-																-	-	-
Isopropyl ether			+	+	+	+	o			o	+		-				-	-	-					+	+
Iodine	+	-	+	+			o	+												o			o		

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W.-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Iodine + potassium iodide, aqueous		o	o	o			o							+						o				+	+
Iodoform	+	+	+	+					o	o	+		o						-	-				-	-
Iodine pentafluoride							-							+				-					-	+	+
Tincture of iodine	+L	-	+L	+L		+	o	-	o	+	+	o	o		-	o	-	-	-						
Coffee	+	-	+	+			+								+	o									
Cacao								+					+	o	+								-	+	o
Potassium acetate	+	-	+	+	+	+	o			+	+						+	+	+				+	+	+
Potassium aluminum sulfate, aqueous	+	o	+	+		+	o		+	+	+	+	+			+	+	+	+	+			+	+	+
Potassium bichromate		+	+	+				+						+											
Potassium bifluoride	-	-	+	+																				+	+
Potassium bitartrate	+	-	o	o										-									+	+	+
Potassium bromide	+L	o	+L	+L		+	+		+	+	+	+	+			+	-	+	+	+			+	+	+
Potassium carbonate, aqueous	+	+	+	+	-	-	+	+	o	+	+	+	+				o		+	+		+	+	+	+
Potassium chlorate	+	+	+	+		+	-	+		+	+		+				o	+		+			+	+	+
Potassium chloride	+L	o	+L	+L	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	o	+	+
Potassium chromate, aqueous		o	o	o		+	o			+	+	+	+			+	-		+	+				+	+
Potassium chrome sulfate	+	-	o	o	-																			+	+
Potassium cyanate	+	+	+	+																			+	+	+
Potassium cyanide	+	+	+	+	-	o	o	+	-	+	+						+	+	-	+					
Potassium cyanoferrate (II)	+	+	+	+																					
Potassium cyanoferrate (III)	+	+	+	+																			+	+	+
Potassium dichromate	+	+	+	+		+	o		o	+	+	+	+				-	+	+	+				+	
Potassium ferricyanide, yellow prussiate of potash	+	-	o	o			+										+			+		+		+	
Potassium ferricyanide, red prussiate of potash	+	+	+	+			+										+			+		+		+	+
Potassium fluoride	+		+	+		+				+	+	+					+							+	+
Potassium hydrogen carbonate						-	+			+	+						+					+		+	+
Potassium hydrogen sulfate	-		-	-		+	+		+		+	+					-							+	+
Potassium hydrogen fluoride		+	+	+			+										-			+		-	+	-	
Potassium hydroxide (potash lye)	+	+	+	+		-	o	+	-	+	+	+	+	-		+	o	+	+	+			+	o	+
Potassium hypochlorite	oL	-	+L	+L		-	o			+	+		o				-	+	+	+			+	+	+
Potassium iodide	+L	-	+L	+L	-	+	+			+	+	+	+			+	+	+		o					
Potassium carbonate		+	+	+										o											
Potassium copper cyanide							+													+			+	+	+
Potassium nitrate	+	+	+	+		+	+	+	+	+	+	+				+	+	+	+	o			+	+	+
Potassium nitrite		+	+	+			+										+			+					
Potassium oxalate	+	+	+	+																			+	+	+
Potassium perchlorate, aqueous	+		+	+		+	-		+	+	+							+	o					+	+
Potassium permanganate	+	o	+	+	-	+	-	+	+	+	+	+	+			+	-	+		+			-		
Potassium peroxide		+	+	+			-										-			o			+	+	
Potassium persulfate	+	+	+	+		-	-		+	+	+	+	+	+	+	+	-	+	+	+			-	+	+
Potassium phosphate		+	+	+			+										o			+			+	+	+
Potassium sulfate	+	+	+	+		+	+			+	+			-	+	+	+			+			+	-	
Potassium sulfide	+	+	+	+		o	+			+	+	+	+			+	o	+	+	+			+	+	+
Potassium sulfite	+	o	+	+		+	+			+	+						+			o		+	+		
Lime																	+					+			

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.:1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitalit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Calcium bisulfite		-	+	+			+																		
Calcium chloride		-	o	o			+																+		
Calcium hydroxide		-	+	+			+																		
Calcium hypochloride		-	-	-			o																		
Calcium nitrate							+							+											
Calcium sulfate		-	+	+			+																		
Calcium sulfite		-	+	+			+																		
Chamomile extract								+								+							-		
Creosote		+	+	+			o										+			+					
Carnallite	o	-	-	-																					
Cheese	+	-	+	+																			o	-	+
Kerosene	+	+	+	+		+	+		-	o	+		-	+			+	+		+			+		
Ketone (aliphatic)			-	-												-									
Keystone lubricant no. 87HX			+	+			+																	-	+
Pine needle oil		+	+	+		+	+			+			-		+		+			o			-	o	+
Hydrosilicofluoric acid	o	-	o	o		-	o										-	+		+			o	-	+
Neat's-foot oil	+	+	+	+			+			+	+	+	+			+	+			o			+	+	+
Sodium chloride		o	o	o			+	+							+		+			+		+	+	+	+
Carbon dioxide, moist	+	o	+	+		o	+	+	+	+	+	+				+	o	+	+	o		+	+	+	+
Carbon dioxide, dry	+	+	+	+		o	+	+		+	+	+				+	+	+		+		+	+	+	+
Carbon monoxide		+	+	+				+						o			+			+				+	+
Carbonic acid		o	+	+			+										o			o					
Carbon monoxide			+	+			o																-	-	+
Carbon trachloride	+	+	+	+				-						-											
Hydrocarbons, saturated			+	+			+							+									+	-	+
Coconut oil / butter	+	+	+	+			+			+	+	+		+		+	+	+		o			o	-	-
Chloronitrous acid (HCl/HNO3)	-	-	-	-		-	-		-	-	+	o	-		-	o	-	-	-	o					
Fuels: diesel fuel, 85° C					+										+		+						-	+	
Fuels: regular/super fuel	+	+	+	+		+	o		-	o			-	-	+		+							+	+
Chalk	+		+	+		+	+		+	+	+	+	+				+	+	+			+	-	-	
Creosote	+	-	+	+			+			o	+						o		-	o			-	-	+
Cesol	+	+	+	+		+	-	-	-	+	+	o	-	o	-	o	-	o	-	o					
Liquid coolants: year around ethylene glycol anti-freeze and water, 1:1, 106° C					+		o							+						+					
Cooling lubricants		+	+	+										+									-	+	+
Copper acetate (blue verdigris)	+	+	+	+			-			+	+			o			o			+			+	+	+
Copper chloride	-	-	-	-L		-	+		+	+	+			+			o	+	+	+			+	+	+
Copper cyanide	+	-	+	+			+			+	+							+	+				+	+	+
Copper (II) nitrate	+		+	+		-	-			+	+		+				+	+	+					+	+
Copper (II) sulfate 10%															+	+							+	+	+
Copper (II) sulfate	+	o	o	+		-	+	+						-		+	o			+			+	+	+
Laughing gas		+	+	+		+	+										+			+		+			
Paint	+	+	+	+			-																		
Paint solvent			+	+			-							+										+	+
Lactose	+		+	+		+	+		+		+	+	+				+	+	+				o	-	+
Lanolin	+		+	+			+	+	+	o	+	+	+		+	+	+	o	o			+	+		
Lye (xOH)			+	+			o																-		
Lavender oil			+	+			o								+								+	o	+
Cod-liver oil		+	+	+		+	+		+	+	+	+	+			+	+	+		+		+			

Chemical																									
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W.-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
Low-viscosity oil (unrefined benzene)			+	+	+		+																+		
Wood glue	+	+	+	+			+			+	+							+					+	-	+
Linseed oil	+	o	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+	o					
Flaxseed oil		+	+	+			+		+								+						o	-	+
Coal gas	+	+	+	+		+	+	+		+	+		+				+	+	+	+				-	+
Ligroin (petroleum ether-benzene)	+		+	+		+	+		+		+	+	o			+								+	+
Liqueur	+	+	+	+			+		+	+	+				+			+							
Linoleic acid		o	+	+			o													+					
Liquimoly		+	+	+			+																	+	+
Lithium chloride (alcoholic solution)		o	o	o			+										o			+					
Lithium hydroxide							o							+											
Bay leaf								+				+	+			+									
Lysoform®	+	+	+	+				-																-	
Lysol	+	+	+	+						+				+			-			o				+	+
Magnesium carbonate	+		+	+		+	+		+	+	+	+	+	+		+	+	+	+			+	+	+	+
Magnesium chloride	+L	-	+L	+L	-	+	+	+	+	+	+	+	+	+		+	o	+	+	+	+				
Magnesium chloride, nitrate, sulfate, 10%	o		+	+										-	+								+	+	+
Magnesium hydroxide	+		+	+		+	+			+	+	+	+	o			+	+	+						
Magnesium hydroxide, 10%														+	+										
Magnesium carbonate	+	+	+	+																			+	+	+
Magnesium sulfate, aqueous	+	-	+	+	-	+	+	+	+	+	+	+		+		+	o	+	+	o			+	-	+
Corn oil	+	+	+	+			+			+	+	+		+		+	+			o					
Malein anhydride			+	+			-																	-	+
Malein acid	+	+	+	+		+	-			+	+						-	+	+	+				+	+
Manganese chloride	o	-	o	o			+										+								
Manganese chloride, 10%	+L		+L	+L																+			+	+	
Manganese sulfate	+	o	+	+			+	+									+			+			-	+	
Machine oil	+		+	+		+	+				+						+					+	+	+	+
Molasses	+	+	+	+		+	+			+	+						+	+		+			-		
Mercaptane		+	+	+			-										+			+			o		
Mersol, mersol sulfonic acids, mersolate		o	o	o			+													+			-	o	-
Mesityl oxide							-				+	-	-	+		-								o	o
Methacrylic acid							-			+	+			+			-						-	-	+
Methane	+	+	+	+		+	+	+	+	+	+						+	+		o			+	+	o
Methanol	+	+	+	+	+	+	o	-	-	+	+	o	o	+	o	o	o	+	o	+				o	+
Methoxy butanol		+	+	+			+			+	+						+			+			-	-	-
Methyl acetate		o	o	o	+		-							+			+			-			-	-	o
Methylamine	+	o	+	+		+	-		-	+	+			+			-	o	-	o				o	-
Methyl benzene	+		+	+		+	-		-	o	+	-	-				+	-	-				-	-	+
Methyl bromide							o							+									-	-	-
Methyl chloride	+	+	+	+	+		-	-	-					-	o	-	-			-			-	o	-
Methyl ethyl ketone		+	+	+			-	-	-	+	+	-	-	+	+	-	o	-	-	-			-	o	-
Methyl glycol							-		o	+	+		-			-	+	o	-				o	o	-
Methyl isobutyl ketone							-									-	+							+	+
Methylcellulose							o							-									+	o	+
Milk	+	o	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Lactic acid, 10° C		-	+	+							+		+	+										o	+
Lactic acid, 5%	+			+		+		+	+	+	+	+	+		o	+		+						o	+

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W.-Nr.:1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Lactic acid, 80%	+			+		+	+		+	+	+	+			-	+	o	+	+						+
Lactic acid, 90° C	o	-	o	o			-		+	+	+	+					-	o	o				+		+
Lactic acid, aqueous	+	o	o	o			o		+	+	+	+					o			o			+	-	+
Mineral oil	+	+	+	+		+	+		+	+	+		+	+			+	+		o		+			
MLO-7277		+	+	+			-																		
MLO-7557		+	+	+			-							+											
MLO-8200		+	+	+			o																		
MLO-8515		+	+	+			o																		
Molybdenum disulfide, grease		+	+	+			+																		
Monobrominated naphthalin								+															-	-	o
Monochlorobenzene							-	-															-	o	o
Monochloroacetic acid		-	o	o																					
Mineral wax																	+					+	-	o	o
Morpholine, pure		+				+	-			+	+							-	-	-					
Nutmeg								+	-			o	-			o							o	-	+
Naphtha	+		+	+		+	+			+	+		o				+	+	-			o	-	+	
Naphthalene	+		+	+		+	-	o		+	+	+	o		+	+	+	-	-						+
Naphthoic acid			+	+			o																-	+	+
Sodium acetate	+	+	+	+		+	o		+	+	+	+	+			+	+	+	o					+	+
Sodium arsenate/arsenite		+	+	+			+													+		o	+	+	
Sodium benzoate	+	+	+	+		+	+			+	+	+	+			+	+	+		+			+	+	+
Sodium bicarbonate	+	+	+	+	o	+	+		+	+	+	+	+		+	+	+			+		+		+	+
Sodium bisulfate	+	-	o	o		+	+		+	+	+	+	+		+			+		+				+	+
Sodium bisulfite	+	o	+	+		+	+	+			+					+	+			+				+	o
Sodium bisulfite, 10%										+				+	+									+	+
Sodium borate	+		+	+		+	o			+	+	+	+				+	+	+					+	+
Sodium bromate	+L	o	+L	+L		+	+			+		+	+			+	o	+		+				+	+
Sodium bromide		-	-	-		-	+			+	+	+	+	+		+	+	+		+				+	+
Sodium bromide, 10%						-	+			+	+		+	+	o							+	+	+	+
Sodium carbonate	+	+	+	+		o	+	+	+	+	+	+	+			+	+	+	+	+				+	+
Sodium carbonate, 10%	+					o				+	+	+	+	+	+	+								+	
Sodium chloroacetate		+	+	+			+													+		+	+	+	+
Sodium chlorate	+L	-	+L	+L		+	o	+	+	+	+		+				+	+		+			+	+	+
Sodium chloride	o	+	+	+L		o	+	+	+	+	+	+	+		+	+	+	+	+	+		+		+	+
Sodium chlorite	oL	-	oL	oL		o	-			+	+						-	o	-	o				+	+
Sodium chlorite, 5%	-					o				+	+				-									+	+
Sodium chromate	+	o	+	+		+	o			+	+	+	+			+	-	+		+				+	+
Sodium cyanide, aqueous		+	+	+		-	+			+	+						+			+				+	
Sodium dodecylbenzolsulfonate		+	+	+			+			+	+									+			+	+	+
Sodium fluoride		-	+	+		+	+			+	+	+	+			+	+	+	+	+		+		+	+
Sodium glutamate		+	+	+			+							+						+				+	
Sodium hydrogencarbonate		+	+	+			+										+			+		+			
Sodium hydrogenphosphate	+	+	+	+												+								+	-
Sodium hydroxide	+	o	o	o		-	-	+	-	+	+	+				+	+			+			o	+	o
Sodium hypochlorite	oL	-	-	-		-	-	+	o	+	+	+	+	-		+	-	+	+	+		+	+	o	+
Sodium hypochlorite, 10%	oL		+L	+L	o	-	-	+		+	+	+	+	+	-		-	+						+	+
Sodium iodide	o	o	o	o		+	+			+	+		+					+		o					
Sodium carbonate		+	+	+																				o	
Sodium mercaptobenzthiazol		+	+	+			o							+						+			o	+	+
Sodium nitrate	+	o	+	+		+	o		+	+	+	+	+	-		+	+	+	+	o					

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
Sodium nitrate, 10%																									
Sodium nitrite	+	+	+	+		+	+			+	+	+	+			+	+	+	+	+			+	+	+
Sodium nitrite, 5%										+	+				o	+								+	
Sodium pentachlorophenolate		+	+	+			+							+			+			+			+	+	+
Sodium perborate	+	+	+	+		+	o			+	+	+	+			+	+	+	o	+			+	+	+
Sodium perchlorate	+	-	+	+		+				+	+						+	+					o	+	+
Sodium peroxide	+	-	+	+		-	o			+	+						+	+						+	+
Sodium peroxide, 10%	+		+	+		-				+	+						+	+						+	+
Sodium persulfate		o	+	+		-	o			+	+						+	+	+	+			+	+	+
Sodium phosphate	+	o	+	+		+	+			+	+	+	+	+			+	+	+	+	+			+	
Sodium propionate		+	+	+			+										+			+			+		
Sodium pyrosulfite		o	+	+	-		o										+			+				+	+
Sodium salicylate	+	+	+	+							+												+	+	+
Sodium silicate	+	+	+	+	+	+	+		+	+		+	+				+	+	+	+	+			+	
Sodium stannate		+	+	+			+											o		+			+	+	+
Sodium sulfate	+	+	+	+	o	+	+	+	+	+	+	+	+			+	+	+	+	+	+			+	+
Sodium sulfide	+	o	+	+	+	o	+	+	o	+	+	+	+			+	+	+	+	+	+		+	+	+
Sodium sulfite	+	-	+	+		+	+			+	+	+	+			+	+	+	+	+	+			+	
Sodium tartrate		+	+	+			+										+			+					
Sodium tetraborate, 20° C and boiling	+																	+				+	+	+	+
Sodium thiosulfate	+	o	+	+	o	+	o	+		+	+	+	+			+	+	+	+	+	+				
Sodium thiosulfate, 10%						+				+	+			+	+									+	
Sodium zincate		+	+	+			o														+			+	
Nekal BX, aqueous		+	+	+			+													+					
Nekalil®, Nekal® brands (BASF), < 10%, 50° C		+	+	+																				+	+
Neon	+		+	+		+	+				+						+						+	+	+
Nickel chloride	+L	-	+L	+L		-	+			+	+			+			+	+	+			+		+	+
Nickel nitrate	+	-	+	+		-	+			+	+		+	+				+	+				+	+	+
Nickel salts			o	o			+								+			+					+	+	+
Nickel sulfate	+	-	+	+	-	-	+	+	+	+	+	+	+			+	+	+	+	+			+	+	+
Nitrobenzoic acid		+	+	+			+										+	+	+	+			-	-	-
Nitrobenzene, nitrotoluene	+	+	+	+		-	-	-	+	+	-	-		o	-	-	-	-	-	-					
Nitrocellulose paint (alcohol containing, hazard class A I)								-						+								-	o	-	
Nitromethane, nitropropane							-								+							-	o	o	
Nitrous gases		+	+	+		-		-	+	+							-	+		o					
Nitrous acid, 60°, nitrogen content: 4 to 5%	+	+	+	+						-															
Novocain	+	+	+	+																			+	+	+
Fruit pulp	+	-	+	+		+			+	+	+							+							
Octadecane					o		+																-	-	+
Octane (n-octane)	+		+	+		+	o	o	+	+		+	-	o			+	o	o				-		
Octane, octene					+		o							+	+		+						+	+	+
Octyl alcohol						o						+		o			+						o	-	+
Oils (vegetable, essential, mineral)	+	+	+	+		+				+	+		o					+	o		o	+	o	-	o
Oils, animal		+	+	+		+								+							o	+	-	-	+
Oleum	+	o	+	+		+	-		-	-	+		-	o	-		-	-	-	o			+	+	+
Oleum jecoris																	+					+	+	-	+

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Olive oil	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Oleic acid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
OS45, type 1V																									
OS70																									
Oxalic acid	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ozone			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ozone, moist and dry		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
P3® washing detergent	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Palamoll®, Palatinal® brands (BASF)								+						+	+	-							+	-	+
Palmitic acid	+		+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dichlorobenzene																									
Paraffin, paraffin oils	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pentaerythritol																									
Pentane (n-pentane)	+		+	+	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Perchloroethylene		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peracetic acid, aqueous, 6%		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Persil®	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Petroleum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Benzene, petroleum ether	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Petroleum gas, liquefied		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Petroleum oil (raw)		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Petroleum oil (raw, above 121° C)		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Petroleum oil (raw, under 121° C)		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peppermint oil																									
Vegetable oils		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Phenol	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Phenylethyl alcohol																									
Phenylethyl ether						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Phosgene, liquid	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Phosgene, gaseous	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Phosphorus chloride		o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Phosphoric acid	o	-	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Phosphoric acid, > 80%	o																								
Phosphoric acid, 1%	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Phosphoric acid, 10%	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Phosphoric acid, 45%	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Phosphoric acid anhydride	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Phosphorous trichloride	+					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Phthalanhydride																									
Picric acid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pinene (oil of turpentine)		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pine oil			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pickling lye	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Polyethylene glycol			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Polyvinyl acetate emulsion			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Potash		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Prestone antifreeze			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pril®								+								+									
PRL high-temperature hydraulic oil		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Propane, propene	+	+	+	+	+	+	o			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Propanol (n-, Iso-)		+	+	+		+	o	o	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
Propanol (n-, Iso-), > 100° C							l			+	+	+		+									l	o	-
Propyl acetate							l		l					+									l	-	+
Propylene			+	+			l	+						l									+	+	+
Propylene glycol		+	+	+		+	+		+	+	+	+	+	+		+	l	o		+			l	o	-
Propylene oxide			+	+			l		+	+	+	l	l	+		l	+	o					l	o	
Pydraul A150			+	+			l							+			+						l	o	
Pydraul A200			+	+			l							+			+						l	+	
Pydraul AG			+	+			l										+						l	+	
Pydraul F 9			+	+			l										l						l		
Pyranol transformer oil		+	+	+			+																l	-	-
Pyridine	+	o	+	+		+	l	-	-	o	+	l	-	+		l	+	-	-	-					
Pyrogallol	+	+	+	+		+				+		+	o				+								
Pyrogard C&D (water and petroleum)			+	+			+																		
Pyrolube		+	+	+			l																+	+	+
Quicksilver	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	o	+		+			
Quicksilver acetate	+	+	+	+																			+	+	+
Quicksilver chloride	o	-	o	o		-	+		+	+	+	+	+			+	l	+	+	o				+	+
Quicksilver cyanide	+	-	+	+		-				+	+							+							
Quicksilver vapor			+	+			+																		
Quicksilver salts	+	+	+	+			+						+		+					+		-	-		
Rapeseed oil		+	+	+			o									-	+		o						
Red Line 100 oil			+	+			+																		
Rei®								+								+									
Cleaning solutions (organic mixtures)			+	+			l																		
Cleaning agents, aqueous			+	+			+									+									
Resorcin							l		+	+		o	+		-	o	l	o					+	o	+
Castor oil	+	+	+	+	+		+		+	+	+	+	+	+		o	+	+	o	o					
RJ-1 (MIL-F-25558)			+	+			+																-	-	+
Crude oil			+	+	+		o			+	+	o	o	+			+	+	o						
Rose oil													-	+	+	o							+		
Red oil			+	+			l																		
RP-1 (MIL-R-25576)			+	+			+							+											
Rum														l	+	+								+	
Saccharine		+	+	+			+													+			+	+	+
Salicylic acid	+	+	+	+	-	+	o			+	+		+	l	+	+	+	+					+	+	+
Liquid ammonia		+	+	+			l	+												+		-	-	-	
Nitric acid	+	-	-	-	l	-	l	-	-	+	+	-	-	l	-	-	l	-	o			-	-	o	+
Nitric acid, up to 20%	+		+	+	l	-	l	+		o	+		-			+	l	+			+	o	o	o	+
Nitric acid, max.10%, 85° C	+	o	+	+		-	l		+	+	+	o	-	o			l	+				-	-	+	
Nitric acid, aqueous, 40%	+	-	+	+	l	-	l			o	+		-				l	+		o	o	l	+		
Salt															+	+							o	o	+
Hydrochloric acid, 10%	-		-	-		-	l	+	+	+	+	+	+	o	l	+	l	+	o		+	o	o	o	+
Hydrochloric acid, 36%	-	o	-	-	l	-	l			+	+	+	o				l	+	o	+	o	l	o	o	
Hydrochloric acid, concentrated	-	-	-	-		-	l	+	-	+	+	+	o	l	l	o	l	+		+			+	+	+
Salt brine	+		+	+		o	+			+	+						+					+		+	+
Ox<gen		+	+	+			l	+	+	+	+		+				+	+	+	-					
Cheese spread		-	+	+			+							+											

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W.-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Lubricant (MIL-L-7808), diester base		+	+	+			o																		
Lubricant H2, highly viscous		+	+	+			+																		
Lubricant U4, highly viscous		+	+	+			+																		
Lubricant, lightweight		+	+	+			+																-	+	
Lubricating oil, grease, synthetic, diester base		+	+	+		+	o			o	+			+				+	+						
Lubricating oils (crude and refined)		+	+	+		+	o		+							+									
Lubricating oils, diester		+	+	+			o																		
Lubricating oils, petroleum	+	+	+	+		+	+							+		+	+			+			-	+	
Lubricating oils, SAE10,20,30,40,50			+	+			+							+											
Lubricating oils, HD, hydraulic oils, transformer oils, < 130° C														+	+		+						+	+	

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.: 1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Cutting oil		+	+	+										o											
Chocolate	+	+	+	+				+						o									+	o	+
Sulfur	+	+	+	+			-	+	+	+	+	+	+	+	+	+	+	o	o					-	+
Sulfur (liquid, 121° C)	+	+	+	+			-			-		+	-											-	+
Sulfur chloride	+	-	+	+		o	-			-	+						-			-			+	-	
Sulfur dioxide (moist)	+	-	o	o		o	-			+	+		o					+		o			o	o	
Sulfur dioxide (liquid)		+	+	+	o		-	-	o	-	+		-					o		-			+	+	
Sulfur dioxide (dry)		-	o	o			-	+						+						o					
Sulfur dioxide (under pressure)		-	o	o			-								-									+	o
Sulfur dioxide, < 5%																									
Sulfur hexafluoride (20 bar)	+	+	+	+			o					+				+	+			+			-	-	+
Carbon disulfide	+	+	+	+	+	+	-	-	-	-	+	-	-	+	+	-	o	-	-	-			-	-	+
Sulfuric acid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	+
Sulfuric acid, 50%	-	-	-	-	-	o	-	+	+	+	+	+	+	+	-	+	-	+	+	+	+	-	o	+	+
Sulfuric acid, up to 10%	+	-	+	+	-	o	-	+	+	+	+	+	+	+	-	+	-	+	+				-	+	+
Sulfuric acid, aqueous, 30%	+	-	+	+		o	-			+	+		+			+	-	+	+	+			o	+	-
Hydrogen sulfide (hot, moist and dry)		-	+	+			-																o	+	-
Hydrogen sulfide (cold and moist)		+	+	+			-																		
Hydrogen sulfide (cold and dry)		+	+	+			+																		
Hydrogen sulfide, aqueous	+	+	+	+	+	+	o	+			+		o				-		o	o			o	o	+
Sulfurous acid	+	-	+	+	-	o	o	o	-	+	+			-			-	+	+					+	+
Heavy oil		+	+	+			o																	+	+
Soap	+	+	+	+																			+	+	+
Soap solution	+	+	+	+			+	+	o	+	+						-	+		o					+
Mustard	+L	+	+L	+L			+		+	+		+	+	+		+									
Shell 3XF Mine Fluid		+	+	+			+																		
Shell Alvania lubricant		+	+	+			+							+											
Shell Carnea 19 and 29		+	+	+			+							+											
Shell Diala		+	+	+			+							+											
Shell Iru 905		+	+	+			+																		
Shell Tellus 27 (petroleum base)		+	+	+			+																		
Shell Tellus 33		+	+	+			+							+											
Shell UMV (5% aromatic)		+	+	+			+																		
Sidolin®								-																	
Silver bromide	o	+	+	+L																				+	+
Silver chloride	o	-	-	-																			+	+	+
Silver nitrate	+	+	+	+		-	o	+		+	+	+	+	+	+	+	+	+	+	o			+	+	+
Silicon greases	+		+	+	+	+	+			+							+						+	+	+
Silicon oils	+	+	+	+	+	+	+	o	+	+	+	+	o		+	+	+	+	+	+	+	+	-	+	-
Skydrol 500		+	+	+			-							+			o			-			-	+	+
Skydrol 7000		+	+	+			-										o			-			+	+	+
Sodium carbonate		+	+	+			+	+							+		+			+			+	-	+
Soy oil	+	+	+	+			+			+	+				+	+	+			o			+	+	
Brine (refrigerating brine)		o	o	o			+										+			+					
Cooking fats, cooking oils, 100° C		+	+	+			o								+	-	+			o			-	+	
Spindle oil	+	+	+	+		+	+			+	+			+			+	o		o					+
Degumming bath	-	-	-	-			-			+	+						-	+					+	+	

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W.-Nr.:1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Liquors	+	o	+	+		+	+		+	+	+	+					+	+		+					
Spüli®								+								+									
Dishwashing detergent (for dishwashing machines) < 10%										+				+		+	+						+	+	+
Starch solution, aqueous	+	+	+	+		+	+		+	+	+				+		+	+		+				-	+
Cup grease	+		+	+			o				+	+	+	+									+	o	+
Stearic acid, stearate, alkyl stearate	+	o	+	+	-	+	o	+	+	+	+	+	+			+	+	+	+	+			-	-	o
Semianthracite tar constituents										+							+					+		-	+
Nitrogen oxides (nitrous gases)		-	o	o			-							-			-			-		+	+	+	
Nitrous oxide		+	+	+			+										+			+		+	+	+	
Nitrogen	+	+	+	+	+	+	+		+	+	+						+			o					
Stoddard solvent							+							+									-	-	o
Styrene	+	+	+	+		+	-		-	o	+				+		+	-	-	-					
Styrene monomer			+	+			-										+						+		
Mercury (II) chloride								+									+					+			
Sulfate solution, green							o							+											
Sulfolane (tetramethylene sulfoxide)							o							+											
Sulfonate (e.g. alkylaryl sulfonate), < 10%														+										o	+
Sulfuryl chloride					+	o	-	+	+	-	+						-	-	-					-	
Marsh gas (methane)		+	+	+		+	+		+	+							+			o					
Superphosphate	+	-	+	+										+											
Swanfinch Hypoid 90							+							+									+	o	+
Tallow	+		+	+			+			+	+				+	-	+	+	+			+		o	
Tall oil		o	+	+			o										+			+		+	o	+	
Tannin	+	o	+	+		+	o		-	+	+	+	+			+	+	+		+			+		
Tea															+	o							+	-	+
Tar (bituminous)	+	+	+	+			-						+	+			+	+	o					o	
Tar oil		+	+	+	o	+											+			+					
Surfactants, free of alkali																	+					+	-	-	+
Turpentine		+	+	+	+		+									o	+			o			-	-	+
Turpentine substitute (mineral spirits)	+	+	+	+		+		o		o	+	+	-	+		+	+			o				-	+
Oil of turpentine	+	+	+	+			o	+	-	-	+	o	-	+	+	-	+	+	-						
Terpineol			+	+			o							+											
Tertiary butyl alcohol			+	+			o																-	-	+
Mineral spirits	+	+	+	+	+	+	o				+			+			+	+		o			-	-	-
Tetrachlorethane		+	+	+	+		-		-	o	+	-	-	+		-	o	-	-			+	-	-	+
Carbon tetrachloride	+L	+	+L	+L		+	-	-	-		+	-	-		+	-	-	-	-	-					
Perchloromethane		+	+	+			o			-				+		-								-	+
Tetra-ethyl lead		+	+	+			o		o	+	+						+	+		+			-	-	-
Tetrahydrofuran		+	+	+		+	-	-	-	o	+	-	-	o	+	-	+	-	-	-			-	-	+
Naphthalene	+	+	+	+		+	-		-	-	+		-				+	-	-	-			-	-	+
Tetralin®							-	-							+	-	+								
Texaco 3450 transmission oil							+							o											
Texaco Capella A & AA							+							-											
Texaco Meropa 220 no. 3 (lead-free)							+							+											
Texas 1500 oil							+							+											

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.:1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Thioglycol acid		-	+	+		o	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thionyl chloride						o	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thiophene, pure		+	+	+		o	-	-	-	o	-	-	-	-	-	-	-	-	-	-	-	o	-	-	-
Animal oil			+	+		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ink, Indian ink		+	+	+			-	-	-	-	-	-	-	+	+	+	-	-	-	-	-	-	-	-	-
Titanium tetrachloride						o	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	o
Toluol	+	+	+	+	+	-	-	-	-	-	-	-	-	o	+	-	+	-	-	-	-	-	-	-	-
Toluol sulfone chloramide sodium	o	-	+	+L			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	o
Transformer oil						+	o	-	-	+	-	+	-	+	-	+	+	+	-	-	-	-	+	+	+
Dextrose (glucose), aqueous		+	+	+			+	-	-	-	-	-	-	-	-	-	+	-	-	+	+	+	-	-	-
Fuel oil no. 6						o	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
Tributyl phosphate		+	+	+		-	-	-	-	+	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-
Trichloroacetic acid	oL	-	+L	+L		+	-	-	-	+	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-
Trichloroacetic acid, 50%						o	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	+
Trichloroethane			+	+	+	-	-	-	-	-	-	-	-	-	-	-	o	-	-	-	-	-	-	-	o
Trichloroethylene	+L	+	+L	+L	+	+	-	-	-	-	+	-	-	o	-	-	-	-	-	-	-	-	-	-	o
Trichloromethane		+	+	+		-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	o
Trichlorotrifluoroethane						+	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	+	o	-	
Triethanolamine		+	+	+		-	-	-	-	+	+	+	+	-	-	+	o	o	-	-	-	-	+	-	-
Triethylene glycol					+		-	-	+	-	-	-	-	-	-	+	+	-	-	-	-	-	o	-	-
Tricresyl phosphate	+	+	+	+		+	-	-	-	+	+	-	-	+	-	+	+	-	-	-	-	+	+	+	+
Trisodium phosphate	+	+	+	+		+	-	-	-	+	+	-	-	-	-	+	+	-	-	-	-	o	-	-	-
Trioctyl phosphate						-	-	-	-	+	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-
Turbine oil	+		+	+		+	+	-	-	+	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-
Turbine oil no. 35						+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
Ucon oil 50-HB-280X						o	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	+	+
Uranium hexafluoride		o	+	+		+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	-	+	+	+	+
Urine	+	-	+	+		+	+	+	+	+	+	+	o	-	-	+	+	+	+	-	-	+	o	+	+
Vaseline	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	-	-	-	-	+	o	+	+
Vaseline oil	+	+	+	+		+	+	-	+	+	+	+	+	+	-	+	+	o	o	o	o	-	+	o	o
Vinyl acetate		+	+	+		-	-	-	+	+	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-
Vinylacetylene						+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride, vinyl bromide, vinyl fluoride, 80° C		o	o	o	+	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-
VV-H-910						-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
Wax, 80° C	+		+	+		-	-	-	+	o	+	+	+	+	+	+	o	-	-	-	-	-	-	-	-
Wagner 21B brake fluid						-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	+	+	+	+
Detergent (household detergent)	+	+	+	+		+	o	-	+	+	-	-	-	+	-	+	+	+	+	+	+	+	+	+	+
Water (river, sea, lake, potable, condensate)	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-
Water (river, sea, lake, potable, condensate), 80° C, chlorinated up to 0.5 mg/l)						-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	+	+
Water, distilled	+	o	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Water, sea-water	o	-	-	-	o	+	+	+	+	-	+	-	-	+	-	+	+	+	-	+	+	-	+	+	+
Water, mineral water		o	o	o		+	+	-	-	-	-	-	-	+	-	+	+	-	+	+	+	-	-	-	-
Water, heavy		+	+	+		+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water vapor (above 149° C)	+	+	+	+		-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-
Water vapor (below 149° C)		+	+	+		-	-	-	-	-	-	-	-	o	-	-	-	-	-	-	-	-	-	-	-
Water vapor, 100° C		+	+	+		o	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	+
Water glass (sodium silicate)	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	o	+	+

Chemical	Mat. no. 1.4301 V2A	Mat. no. 1.4305 V2A	Mat. no. 1.4401 V4A	W-Nr.:1.4404 V4A	CuZn40Pb3 (brass)	Al	NBR	PMMA	PC	PP	PTFE	SAN	PS	PBT	Grivory®	ABS	PA	PVC, hard	PVC, soft	PVC connector cable	PUR connector cable	Vitralit®, VBB1	Silicon	EPDM	FPM
(Percentages indicate concentrations of aqueous solutions.) (If a specific temperature has not been entered, room temperature applies: 15 to 35° C)																									
Hydrogen	+	+	o	o		+	-		+	+	+	+	+	+			+	+	+	-			+	o	o
Hydrogen peroxide	+	o	+	+			-	+	+	-	+	+	+	o			-	+	+		-		+	o	+
Hydrogen peroxide, 10%	+	o	+	+	o			+	+	+	+	+	+	o	-	+	-	+		-	+	o	+	+	+
Hydrogen peroxide, 2%	+	+	+	+	o		o			+	+		+	o	-	+	o	+		-	+	+		+	+
Hydrogen peroxide, grade 2			+	+			o							-									+	+	+
Wine	+	+	+	+			+	+	+	+	+		+		+		+	+	+	+			+	o	+
Tartaric acid	+	o	o	o	o		+		+	+		+	+			+	-	+		+					
Tartaric acid, 10%	+			+				+						+	+									+	+
Tartar		-	o	o																				+	+
White oil							+								+		+								
Wemco C							+								+									+	+
Whisky	+	-	+	+		+	+		+	+	+					+	+								
Wolmar salts							+							+										+	+
Xenon	+	+	+	+		+	+				+						+			+			-	-	+
Xylol	+	+	+	+	+	+	-	-	-	-	+	-	-	o	+	-	+	-	-	-		+			
Cinnamon								+	+			+	o			+									
Zinc (zinc plated metal surfaces), outdoor exposure	-	-	-	-										+										+	+
Zinc chloride	+L	-	+L	+L	-	o	+		+	+	+	+	+			+	-	+	+	+		+			
Zinc cyanide	+	-	+	+										-										+	+
Zinc sulfate	+	-	+	+	o	o	+	+	+	+	+	+	+	-		+		+	+	+				+	+
Tin chloride		-	-	-			+										o		+	+				+	+
Tin (II) chloride	oL	-L	+L	+L	-			+	+	+	+	+	+			+	-	+						+	+
Tin (IV) chloride	-L	-L	oL	oL	-					+	+		-			-	-							+	+
Lemon juice	+		+	+			+		+	+	+		+	+	o	+	+	+	+	+				+	+
Citric acid	+	-	+	+	o	+	+	+	+	+	+	+	+	+		+	+	+	+	+				+	+
Citric acid, 10%	+	+	+	+			+	+	+	+	+		+					+						+	
Sugar	+	+	+	+			+			+				+	+	+	+			+					
Sugar cane liqueur							+							+										+	+
Sugar-beet juice			+	+			+		+	+	+		+				+								
Onions								+								+									