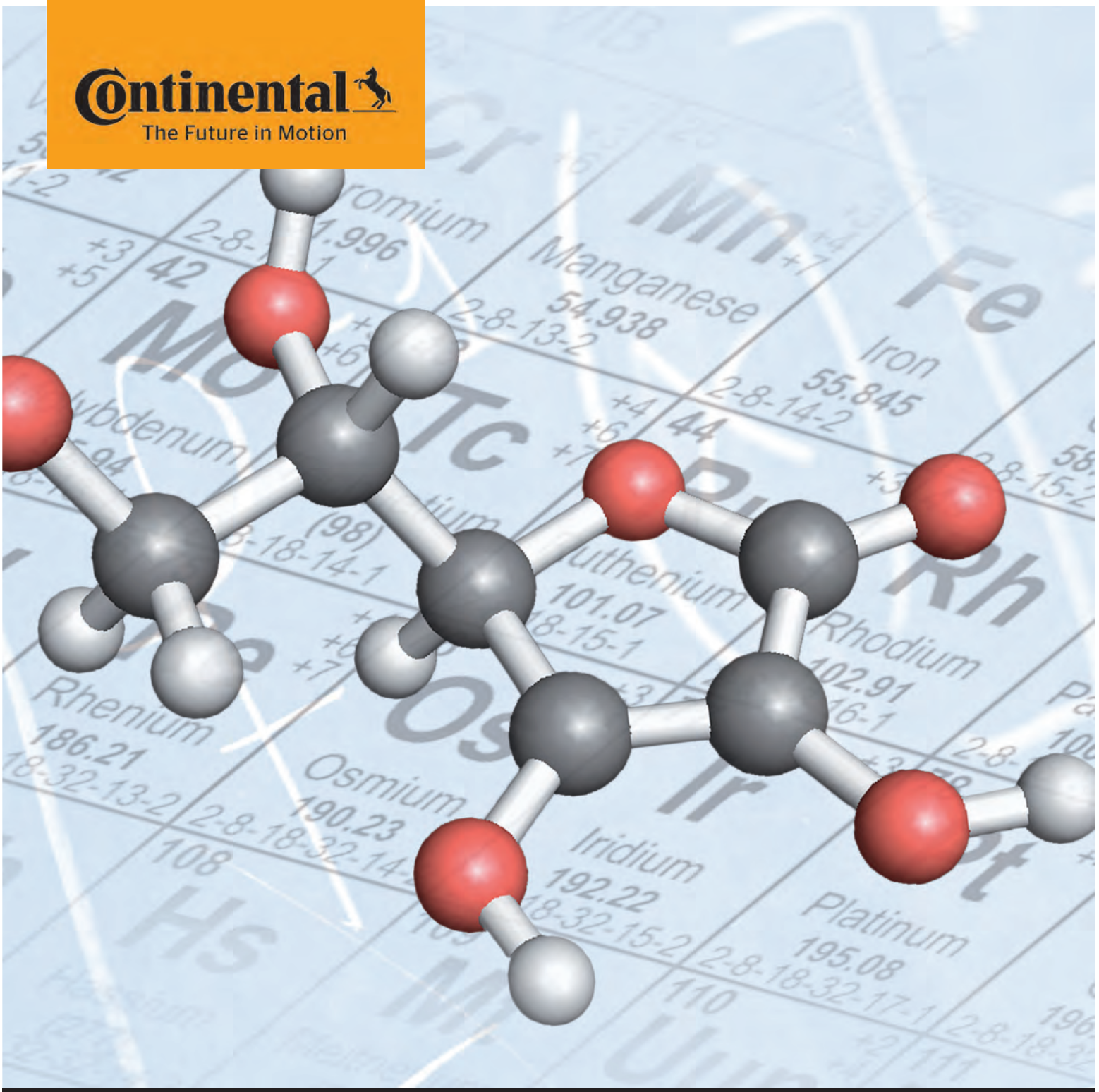
Continental
The Future in Motion



Chemical Resistance Chart

Fluid Technology

ContiTech

Chemical Resistance Chart
CONTI® CHEM Chemical hoses

Basic information

All resistance specifications are guide values that can only be guaranteed for a restricted period of time. They are based on the analysis of the material of the inner lining of the hose in lab tests without dynamic load, on the operational experiences of our customers, on the documentation of manufacturers, and on comparisons with chemicals with similar properties.
If these specifications are not sufficient for the operator, individual tests must be carried out.

No definitive statements on the resistance of the hose cover are made in the table. However, basic properties such as temperature resistance, ozone resistance, and abrasion resistance are stated. If the hose cover is to be exposed to chemicals, it is absolutely necessary to consult with us first.

The chart advises the maximum permissible temperature of the medium that the hose is capable of operating, either for permanent use (column 'DE') or short-term use (column 'KE'). Depending upon dynamic working stress, medium purity, frequency of media change and temperature the resistance data of the lining material may vary.

ContiTech hoses are suitable for use up to the maximum temperature limit stated in the chart for both permanent and short-term use. Please note that permanent use above +65°C / +149°F considerably decreases the life of hoses.

- **Permanent use means:** Long term or continuous wet hose use. Note, if the hose is continuously subjected to the maximum advised temperature, the life span of the hose will be reduced i.e. the operating temperature has an effect on the hose life. If in doubt please contact us.

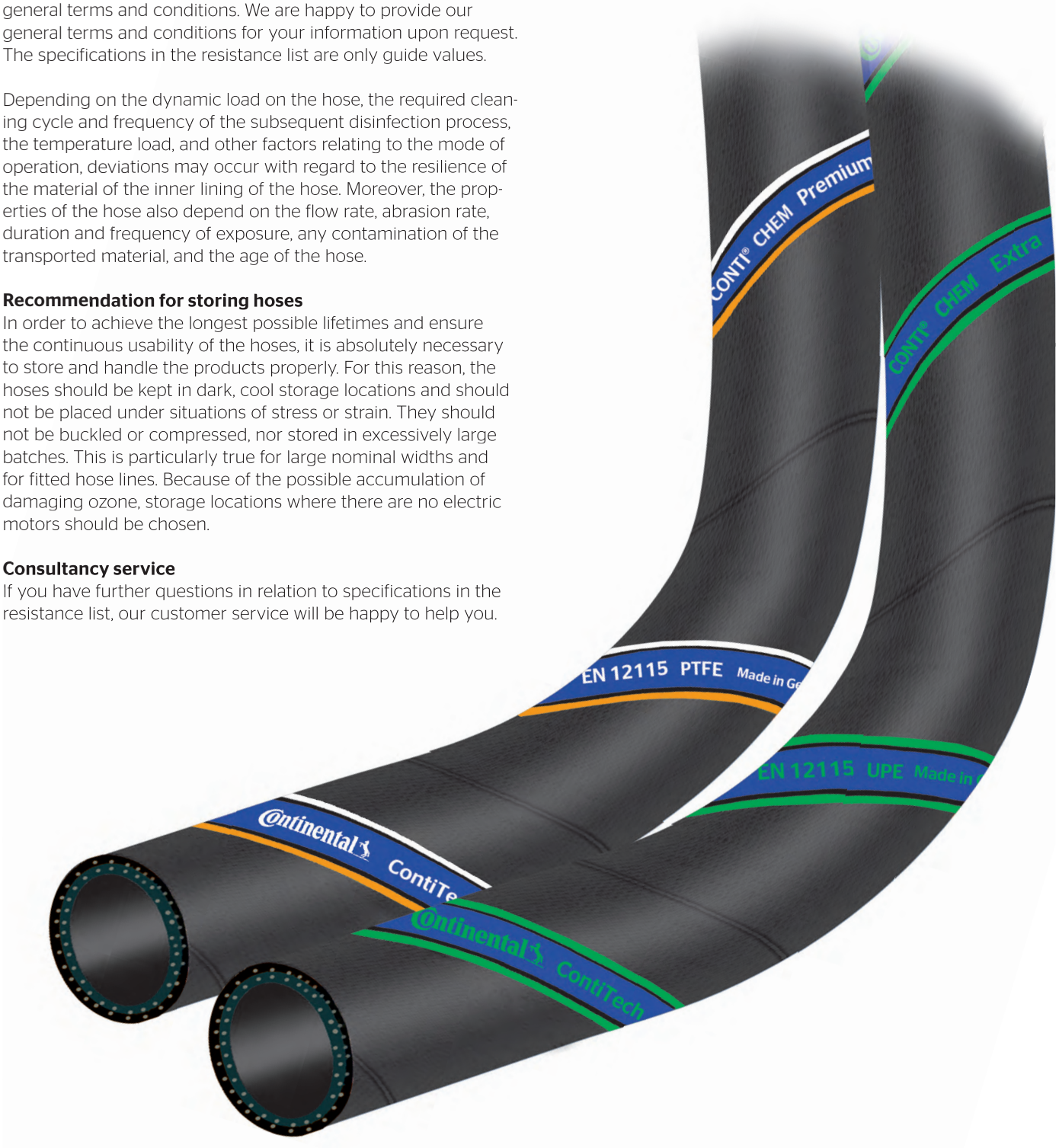
- **Short term use means:** The hose is emptied after use and only exposed to the media for a few hours.

The table contains information on the maximum permitted concentration and temperature of the products in question. It takes the cleaning and disinfection cycles of the manufacturers into account. Even when used properly, the resistance stated in the table does not represent unlimited durability. For details on our guarantee conditions and information on any other liability, see our general terms and conditions. The resistance list below constitutes a complete, indivisible unit in conjunction with our general terms and conditions. We are happy to provide our general terms and conditions for your information upon request. The specifications in the resistance list are only guide values.

Depending on the dynamic load on the hose, the required cleaning cycle and frequency of the subsequent disinfection process, the temperature load, and other factors relating to the mode of operation, deviations may occur with regard to the resilience of the material of the inner lining of the hose. Moreover, the properties of the hose also depend on the flow rate, abrasion rate, duration and frequency of exposure, any contamination of the transported material, and the age of the hose.

Recommendation for storing hoses
In order to achieve the longest possible lifetimes and ensure the continuous usability of the hoses, it is absolutely necessary to store and handle the products properly. For this reason, the hoses should be kept in dark, cool storage locations and should not be placed under situations of stress or strain. They should not be buckled or compressed, nor stored in excessively large batches. This is particularly true for large nominal widths and for fitted hose lines. Because of the possible accumulation of damaging ozone, storage locations where there are no electric motors should be chosen.

Consultancy service
If you have further questions in relation to specifications in the resistance list, our customer service will be happy to help you.

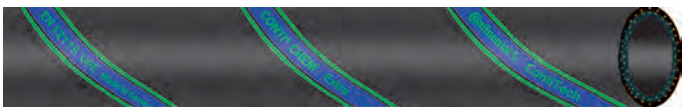


Chemical Hoses from ContiTech

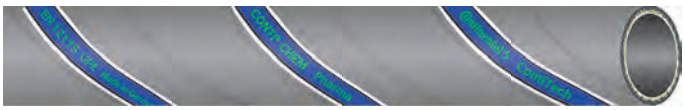
CONTI® CHEM Oil
Smooth bore tank truck hose with NBR lining and kink resistant steel helix for all petroleum based products up to 50% aromatic component. Approved to German military standard VG 95 955 type S. Complies with EN 12115:2011 and EN 1761. The tube is resistant to swelling and diffusion, does not stiffen and is flexible at low temperatures. However, the hose tube is sensitive to ozone. Therefore unused hoses must be stored with capped ends. The cover is very resistant to abrasion and weather.

CONTI® CHEM Standard
Classical chemical hose with smooth, seamless EPDM lining. For acids, alkalis, salt solutions, alcohols, polar solvents, acetates, aldehydes, ester, ketones, hot cooling water and hot air (not oily).

CONTI® CHEM Extra
Universal chemical hose with seamless, black UPE lining. For almost all liquid and pasty chemical and petroleum based products and solvents up to +100°C /+212° F depending on medium and concentration. Not resistant to oleum, bromine and chlorosulfonic acid. Meets EN 12115:2011.



CONTI® CHEM Pharma
Universal hose with UPE lining for pharmaceuticals, clean chemicals, cosme-tics, paints and glues, washing and cleaning products, hygienic/sanitary products and foodstuffs. Suitable for nearly all liquid, high viscous or powdery products. Meets EN 12115:2011. UPE lining approved regarding physiological properties conform to FDA und USP Class VI, fulfills requirements of Regulation EC 1935/2004 and of the Commission Directive 2002/72/EC. Confirmation of mentioned electrostatic properties by PTB and ZAFT, certificate no. ZAFT Ex 209906-9.



CONTI® CHEM Superior
High quality hose with seamless transparent FEP lining resistant to all commonly used chemicals. Suitable for both suction and delivery. Meets EN 12115:2011.

CONTI® CHEM Premium
High quality hose with an electrically conductive, smooth PTFE lining resistant to all commonly used chemicals. Meets EN 12115:2011. May be used in EX-Zones 0 and 1.

Chemical Resistance Chart

Date: July 2014

Chemical Resistance Chart of Products used for Cleaning and Disinfection

Medium	Cas No.	Concn. %	CONTI® CHEM Oil				CONTI® CHEM Standard				CONTI® CHEM Extra / Pharma				CONTI® CHEM Premium / Superior			
			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
1. -Propanethiol, 3 trimenthoxysilyl	4420-74-0	tech	-	-	-	-	-		20	68	50	122	80	176	100	212	100	212
Acetal	105-57-7	tech	-	-	-	-	20	68	40	104	60	140	80	176	100	212	100	212
Acetaldehyde	75-07-0	tech	-	-	-	-	20	68	40	104	60	140	80	176	100	212	100	212
Acetaldehyde aq	75-07-0	any	-	-	20	68	40	104	60	140	80	176	100	212	100	212	100	212
Acetamide	60-35-5	tech	-	-	20	68	40	104	60	140	80	176	90	194	100	212	100	212
Acetic Acid concn. 1	64-19-7	<10	20	68	40	104	60	140	80	176	90	194	100	212	100	212	100	212
Acetic Acid concn. 2	64-19-7	<25	-	-	20	68	60	140	80	176	90	194	100	212	100	212	100	212
Acetic Acid concn. 3	64-19-7	<50	-	-	20	68	50	122	70	158	90	194	100	212	100	212	100	212
Acetic Acid concn. 4	64-19-7	<75	-	-	-	-	50	122	70	158	90	194	100	212	100	212	100	212
Acetic Acid concn. 5	64-19-7	99	-	-	-	-	40	104	60	140	90	194	100	212	100	212	100	212
Acetic Acid Methyl Ester	79-20-9	tech	-	-	-	-	20	68	40	104	40	104	60	140	100	212	100	212
Acetic Acid n -Butyl Ester	123-86-4	tech	-	-	-	-	-	-	20	68	70	158	90	194	100	212	100	212
Acetic Acid Propyl Ester	109-60-4	tech	-	-	-	-	-	-	20	68	80	176	90	194	100	212	100	212
Acetic Anhydride	108-24-7	tech	-	-	-	-	20	68	40	104	40	104	80	176	100	212	100	212
Acetone	67-64-1	tech	-	-	-	-	20	68	40	104	60	140	90	194	100	212	100	212
Acetonitrile	75-05-8	tech	-	-	-	-	20	68	40	104	20	68	60	140	100	212	100	212
Acetophenone	98-86-2	tech	-	-	-		20	68	40	104	60	140	90	194	100	212	100	212
Acetyl Chloride	75-36-5	tech	-	-	-	-	-	-	20	68	30	86	50	122	100	212	100	212
Acetylacetone	123-54-6	tech	-	-	-	-	20	68	40	104	60	140	90	194	100	212	100	212
Acetylcellulose s. Cellulose-acetate acetonic solution																		
Acetylene gaseous	74-86-2	any																
Acrolein	107-02-8	tech	-	-	-	-	20	68	40	104	40	104	60	140	100	212	100	212
Acrylic Acid	79-10-7	tech	-	-	-	-	60	140	80	176	80	176	100	212	100	212	100	212
Acrylic Acid Methyl Ester	96-33-3	tech	-	-	-	-	20	68	40	104	60	140	80	176	100	212	100	212
Acrylic Acid n -Butyl Ester	141-32-2	tech	-	-	-	-	20	68	40	104	60	140	80	176	100	212	100	212
Acrylonitrile	107-13-1	tech	-	-	-	-	60	140	80	176	80	176	100	212	100	212	100	212
Adipic Acid (2 -Ethylhexyl) Ester	103-23-1	tech	40	104	60	140	40	104	60	140	70	158	90	194	100	212	100	212
Adipic Acid aq	103-23-1	any	40	104	60	140	60	140	80	176	80	176	100	212	100	212	100	212
Alabaster Marble s. Calcium Carbonate aq																		
Allyl Alcohol	107-18-6	tech	20	68	60	140	60	140	80	176	70	158	90	194	100	212	100	212
Allyl Chloride	107-05-1	tech	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Alpha -Methylstyrene	98-83-9	tech	-	-	-	-	-	-	-	-	40	104	60	140	100	212	100	212
Aluminium Acetate aq	142-03-0	any	20	68	40	104	90	194	100	212	90	194	100	212	100	212	100	212
Aluminium Bromide aq	7727-15-3	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Aluminium Chlorate aq	15477-33-5	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Aluminium Chloride aq	7446-70-0	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Aluminum Formate aq		any	-	-	-	-	40	104	60	140	90	194	100	212	100	212	100	212
Aluminium Hydroxide aq	21645-51-2	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Aluminium Nitrate aq	7784 27-2	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212

Legend
DE = maximum temperature, permanent use
KE = maximum temperature, short use
- = not resistant

- Please observe introduction -
the values in bold type show the normally perferred or recommended hose types

Chemical Resistance Chart

Date: July 2014

Chemical Resistance Chart of Products used for Cleaning and Disinfection

Medium	Cas No.	Concn. %	CONTI® CHEM Oil				CONTI® CHEM Standard				CONTI® CHEM Extra / Pharma				CONTI® CHEM Premium / Superior			
			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Aluminium Phosphate aq	7784-30-7	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Aluminium Potassium Sulfate aq	7784-24-9	any	40	104	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Aluminium Sulfate aq	7784-31-8	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Aminoethanol-2	141-43-5	tech	40	104	60	140	20	68	60	140	80	176	100	212	100	212	100	212
Ammonia liquid	7664-41-7	tech							**Use special type AMX**									
Ammonia gas, dry	7664-41-7	<2	20	68	50	122	60	140	90	194	40	104	60	140	100	212	100	212
Ammonia gas, wet	7664-41-7	<5	20	68	50	122	70	158	90	194	50	122	80	176	100	212	100	212
Ammonia Solution s. Ammonium Hydroxide																		
Ammonium Acetate aq	631-61-8	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Ammonuium Bifluoride aq	1341-49-7	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Ammonium Bisulfate aq	7803-63-6	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Ammonium Carbonate aq	506-87-6	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Ammonium Chloride aq	12125-02-9	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Ammonium Hydroxide aq	1336-21-6	<25	80	176	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Ammonium Nitrate aq	6484-52-2	any	80	176	100	212	80	176	100	212	90	194	100	212	100	212	100	212
Ammonium Persulfate aq	7727-54-0	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Ammonium Phosphate aq	7722-76-8	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Ammonium Sulfate aq	7783-20-2	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Ammonium Thiocyanate aq	1762-95-4	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Ammonium Thiosulfate aq	7783-18-8	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Anethole alcoholic solution	4180-23-8	<20	20	68	40	104	-	-	20	68	40	104	80	176	100	212	100	212
Aniline	62-53-3	tech	-	-	-	-	70	158	80	176	90	194	100	212	100	212	100	212
Aniline Hydrochloride aq	142-04-1	any	20	68	60	140	20	68	60	140	40	104	80	176	100	212	100	212
Aniline Salt s. Aniline Hydrochloride aq																		
Animal Fat		tech	60	140	80	176	-	-	40	104	60	140	80	176	100	212	100	212
Antifoam Additive Antispumin 3214		tech	50	122	80	176	-	-	30	86	50	122	80	176	100	212	100	212
Antifoam Additive Antispumin BA		tech	50	122	80	176	-	-	30	86	50	122	80	176	100	212	100	212
Antifoam Additive Antispumin GH		tech	50	122	80	176	50	122	80	176	50	122	80	176	100	212	100	212
Antifoam Additive Antispumin HE		tech	50	122	80	176	30	86	50	122	50	122	80	176	100	212	100	212
Antifoam Additive Antispumin S 664		tech	30	86	60	140	-	-	30	86	50	122	80	176	100	212	100	212
Antifoam Additive Antispumin SGM		tech	30	86	60	140	-	-	30	86	50	122	80	176	100	212	100	212
Antifoam Additive Antispumin ZU		tech	30	86	60	140	-	-	30	86	50	122	80	176	100	212	100	212
Antimony-III-Chloride aq	10025-91-9	tech	60	140	80	176	60	140	80	176	60	140	80	176	80	176	100	212
Arsenic Acid aq	1303-28-2	any	80	176	100	212	80	176	100	212	90	194	100	212	100	212	100	212
ASTM Fuel A		tech	60	140	80	176	-	-	-	-	50	122	80	176	100	212	100	212

Legend
DE = maximum temperature, permanent use
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Chemical Resistance Chart

Date: July 2014

Chemical Resistance Chart of Products used for Cleaning and Disinfection

Medium	Cas No.	Concn. %	CONTI® CHEM Oil				CONTI® CHEM Standard				CONTI® CHEM Extra / Pharma				CONTI® CHEM Premium / Superior			
			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
ASTM Fuel B		tech	20	68	60	140	-	-	-	-	50	122	80	176	100	212	100	212
ASTM Fuel C		tech	-	-	20	68	-	-	-	-	50	122	80	176	100	212	100	212
ASTM Oil I s. IRM Oil 901																		
ASTM Oil II s. IRM Oil 902																		
ASTM Oil III s. IRM Oil 903																		
AVGAS		tech	80	176	110	230	-	-	-	-	50	122	80	176	100	212	100	212
Aviation Gasoline s. AVGAS																		
Barium Carbonate aq	513-77-9	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Barium Chloride aq	10361-37-2	any	60	140	80	176	90	194	100	212	80	176	100	212	100	212	100	212
Barium Hydroxide aq	22326-55-2	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Barium Sulfate aq	7727-43-7	any	60	140	80	176	90	194	100	212	80	176	100	212	100	212	100	212
Barium Sulfide aq	21109-95-5	any	60	140	80	176	90	194	100	212	80	176	100	212	100	212	100	212
Beet Sugar Juice s. Sucrose aq																		
Benzaldehyde	100-52-7	tech	-	-	-	-	20	68	40	104	60	140	100	212	100	212	100	212
Benzene	71-43-2	tech	-	-	-	-	-	-	-	-	50	122	80	176	100	212	100	212
Benzenesulfonic Acid	98-11-3	tech	-	-	-	-	-	-	-	-	40	104	80	176	100	212	100	212
Benzenesulfonic Acid aq	98-11-3	<15	-	-	-	-	-	-	-	-	60	140	90	194	100	212	100	212
Benzoic Acid aq	65-85-0	any	60	140	80	176	60	140	80	176	60	140	80	176	100	212	100	212
Benzophenol s. Phenol																		
Benzophenone	119-61-9	tech	-	-	-	-	20	68	40	104	40	104	80	176	100	212	100	212
Benzophenone alcoholic solution	119-61-9	any	-	-	-	-	20	68	40	104	60	140	90	194	100	212	100	212
Benzotrichloride	98-07-7	tech	-	-	-	-	-	-	-	-	20	68	50	122	100	212	100	212
Benzyl Acetate	140-11-4	tech	-	-	-	-	-	-	40	104	40	104	60	140	100	212	100	212
Benzyl Acrylate	2495-35-4	tech	-	-	-	-	-	-	40	104	60	140	80	176	100	212	100	212
Benzyl Alcohol	100-51-6	tech	-	-	-	-	70	158	90	194	70	158	90	194	100	212	100	212
Benzyl Benzoate alc. sol	120-51-4	<20	-	-	-	-	-	-	20	68	40	104	60	140	100	212	100	212
Benzyl Bromide	212-39-0	tech	-	-	-	-	-	-	20	68	20	68	40	104	100	212	100	212
Benzyl Chloride	212-44-7	tech	-	-	-	-	-	-	20	68	20	68	40	104	100	212	100	212
Beta-Diisobutylene	107-40-4	tech	20	68	40	104	-	-	-	-	20	68	50	122	100	212	100	212
Biodiesel	67762-38-3	any	-	-	70	158	-	-	-	-	50	122	70	158	100	212	100	212
Biphenyl	92-52-4	tech	-	-	-	-	-	-	-	-	40	104	80	176	100	212	100	212
Bismuth-III-Carbonate aq	1458327	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Bleaching Lye s. Sodium Hypochlorite aq																		
Bleaching Solution (2,5g / l Chloride of Lime)	7778-54-3	<0,3	-	-	-	-	90	194	100	212	90	194	100	212	100	212	100	212
Bordeaux Mixture aq (blue stone in lime milk)		any	40	104	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Boric Acid aq	10043-35-3	any	60	140	80	176	60	140	80	176	60	140	80	176	100	212	100	212
Bromine	7726-95-6	tech	-	-	-	-	-	-	-	-	-	-	-	-	60	140	60	140
Bromine Fumes		<1	-	-	-	-	20	68	40	104	-	-	20	68	60	140	60	140

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Date: July 2014

Chemical Resistance Chart of Products used for Cleaning and Disinfection

Medium	Cas No.	Concn. %	CONTI® CHEM Oil				CONTI® CHEM Standard				CONTI® CHEM Extra / Pharma				CONTI® CHEM Premium / Superior			
			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Bromobenzene	108-86-1	tech	-	-	-	-	-	-	-	-	20	68	40	104	100	212	100	212
Bromochlormethane	74-97-5	tech	-	-	-	-	-	-	-	-	-	-	-	-	100	212	100	212
Bunker Fuel		tech	80	176	110	230	-	-	-	-	50	122	80	176	100	212	100	212
Bitadiene-1,3 liquid	106-99-0	tech	20	68	60	140	-	-	-	-	20	68	40	104	100	212	100	212
Butane gaseous and liquid	106-97-8	tech	**Use special type LPG**															
Butanol-1	71-36-3	tech	50	122	70	158	80	176	100	212	80	176	100	212	100	212	100	212
Butene-1	106-98-9	tech	**Use special type LPG**															
Butyl Acetaldehyde	124-13-0	tech	-	-	-	-	20	68	40		50	122	70	158	100	212	100	212
Butyl Benzoate	136-60-7	tech	-	-	-	-	-	-	-	-	70	158	90	194	100	212	100	212
Butyl Bromide	109-65-9	tech	-	-	-	-	-	-	-	-	40	104	60	140	100	212	100	212
Butyl Butyrate	109-21-7	tech	-	-	-	-	-	-	-	-	70	158	90	194	100	212	100	212
Butyl Chloride-1	109-69-3	tech	-	-	-	-	-	-	-	-	20	68	60	140	100	212	100	212
Butyl Stearate	98-51-1	tech	20	68	40	104	20	68	40	104	60	140	80	176	100	212	100	212
Butylamine-1	109-73-9	tech	-	-	20	68	20	68	40	104	40	104	60	140	100	212	100	212
Butylmercaptan-1	109-79-5	tech	-	-	-	-	-	-	-	-	20	68	40	104	100	212	100	212
Butyraldehyde	123-72-8	tech	-	-	-	-	-	-	20	68	40	104	60	140	100	212	100	212
Butyric Acid	107-92-6	tech	-	-	-	-	-	-	20	68	70	158	90	194	100	212	100	212
Butyric Acid aq	107-92-6	<20	-	-	-	-	20	68	40	104	70	158	90	194	100	212	100	212
Butyric Anhydride	106-31-0	tech	-	-	-	-	-	-	20	68	50	122	70	158	100	212	100	212
Calcium Carbonate aq	471-34-1	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Calcium Chloride aq	10043-52-4	any	40	104	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Calcium Hydroxide aq	1305-62-0	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Calcium Hypochlorite aq	7778-54-3	any	20	68	40	104	60	140	80	176	60	140	80	176	100	212	100	212
Calcium Nitrate aq	10124-37-5	any	40	104	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Calcium Oxide (Lime) aq	1305-78-8	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Calcium Sulfate aq	7778-18-9	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Carbon Disulfide	75-15-0	tech	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Carbon Monoxide gaseous	124-38-9	any	60	140	80	176	80	176	100	212	60	140	80	176	100	212	100	212
Carbonic Acid aq	463-79-6	any	80	176	100	212	80	176	100	212	80	176	100	212	100	212	100	212
Castor Oil	8001-79-4	tech	40	104	60	140	20	68	40	104	70	158	90	194	100	212	100	212
Cellulose Acetate acetonic solution	9004-35-7	<20	-	-	-	-	20	68	40	104	60	140	80	176	100	212	100	212
Chlorine gaseous	7782-50-5	any	-	-	-	-	-	-	-	-	-	-	-	-	20	68	20	68
Chlorine Trifluoride	7790-91-2	any	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorine Water	7782-50-5	<5	50	122	70	158	60	140	80	176	70	158	90	194	100	212	100	212
Chloroacetic Acid	79-11-8	tech	-	-	-	-	20	68	40	104	60	140	60	140	100	212	100	212
Chloroform	67-66-3	tech	-	-	-	-	-	-	-	-	20	68	40	104	100	212	100	212
Chloropropyl Trichlorosilane	2550-06-3	tech	-	-	20	68	-	-	20	68	40	104	65	149	100	212	100	212
Chlorosulfonic Acid	7790-94-5	tech	-	-	-	-	-	-	-	-	-	-	-	-	100	212	100	212
Chromic Acid aq concn. 1	7738-94-5	<25	-	-	-	-	70	158	90	194	40	104	60	140	100	212	100	212
Chromic Acid aq concn. 2	7738-94-5	<50	-	-	-	-	50	122	70	158	30	86	50	122	100	212	100	212

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Chemical Resistance Chart

Date: July 2014

Chemical Resistance Chart of Products used for Cleaning and Disinfection

Medium	Cas No.	Concn. %	CONTI® CHEM Oil				CONTI® CHEM Standard				CONTI® CHEM Extra / Pharma				CONTI® CHEM Premium / Superior			
			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Citric Acid aq concn. 1	77-92-9	≤10	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Citric Acid aq concn. 2	77-92-9	<50	20	68	40	104	40	104	60	140	80	176	100	212	100	212	100	212
Coconut Oil	8001-31-8	tech	60	140	80	176	20	68	40	104	60	140	80	176	100	212	100	212
Compressed Air containing < 0.1% compressor oil			**Use special type KS**															
Copper Acetate aq	6046-93-1	any	40	104	70	158	80	176	100	212	80	176	100	212	100	212	100	212
Copper Arsenate aq		tech	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Copper Chloride aq	7758-89-6	≤2	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Copper Cyanide aq	544-92-3	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Copper Nitrate aq	10031-43-3	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Copper Sulfate aq	7758-99-8	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Creosote	8001-58-9	tech	-	-	-	-	-	-	20	68	40	104	60	140	100	212	100	212
Cresol isomer mixture	1319-77-3	tech	-	-	-	-	-	-	-	-	40	104	80	176	100	212	100	212
Crude Oil s. Petroleum containing hydrogen sulfide			**On Request**															
Cumene	98-82-80	tech	-	-	-	-	-	-	-	-	40	104	60	140	100	212	100	212
Cyclohexane	110-82-7	tech	20	68	40	104	-	-	-	-	40	104	80	176	100	212	100	212
Cyclohexanol	108-93-0	tech	20	68	40	104	20	68	40	104	90	194	100	212	100	212	100	212
Cyclohexanone	108-94-1	tech	-	-	-	-	-	-	20	68	80	176	100	212	100	212	100	212
Cyclohexylamine	108-91-8	tech	-	-	-	-	-	-	20	68	20	68	50	122	100	212	100	212
Decane	124-18-5	tech	40	104	60	140	-	-	-	-	50	122	80	176	100	212	100	212
Diacetone Alcohol	123-42-2	tech	-	-	-	-	-	-	20	68	50	122	80	176	100	212	100	212
Diammonium Hydrogen Phosphate aq	7783-28-0	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Dibuthyl Ether	142-96-1	tech	-	-	-	-	-	-	20	68	40	104	60	140	100	212	100	212
Dibutylamine	11-92-2	tech	-	-	20	68	40	104	60	140	50	122	70	158	100	212	100	212
Dichlorobenzene	95-50-1	tech	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Dichlorodimethylsilane	75-78-5	tech	-	-	20	68	-	-	20	68	40	104	65	149	100	212	100	212
Dichloroethane 1,2	107-06-2	tech	-	-	-	-	-	-	-	-	-		40	104	100	212	100	212
Dichloroethylene 1,2 isomer mixture	540-59-0	tech	-	-	-	-	-	-	-	-	-		40	104	100	212	100	212
Dichlorotoluene	29797-40-8	tech	-	-	-	-	-	-	-	-	20	68	40	104	100	212	100	212
Diesel Oil sulfur cont. < 1		tech	80	176	110	230	-	-	-	-	50	122	80	176	100	212	100	212
Diethyl Ether	60-29-7	tech	-	-	20	68	-	-	-	-	20	68	40	104	100	212	100	212
Diethylamine	109-89-7	tech	-	-	20	68	40	104	60	140	40	104	70	158	100	212	100	212
Diethylene Glycol	111-46-6	tech	80	176	100	212	80	176	100	212	80	176	100	212	100	212	100	212
Diethylene Glycol Monoethyl Ether	111-90-0	tech	20	68	60	140	20	68	60	140	40	104	60	140	100	212	100	212
Diethylene Glycol Mono-n-butyl Ether	112-34-5	tech	20	68	60	140	40	104	60	140	40	104	60	140	100	212	100	212
Diethylenetriamine	111-40-0	tech	-	-	-	-	50	122	90	194	50	122	90	194	100	212	100	212
Diisopropylbenzene 1,3	99-62-7	tech	-	-	-	-	-	-	-	-	40	104	80	176	100	212	100	212
Dimethyl Formamide	68-12-2	tech	-	-	-	-	20	68	70	158	70	158	90	194	100	212	100	212

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Chemical Resistance Chart

Date: July 2014

Chemical Resistance Chart of Products used for Cleaning and Disinfection

Medium	Cas No.	Concn. %	CONTI® CHEM Oil				CONTI® CHEM Standard				CONTI® CHEM Extra / Pharma				CONTI® CHEM Premium / Superior			
			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Dimethyl Sulfate	77-78-1	tech	20	68	40	104	-		-		20	68	60	140	100	212	100	212
Dimethylaniline	95-68-1	tech	-	-	-	-	20	68	40	104	60	140	80	176	100	212	100	212
Dimethyldisulfide	624-92-0	any	-	-	-	-	-	-	-	-	40	104	60	140	100	212	100	212
Dimethylphenol isomer mixture	1300-71-6	tech	-	-	-	-	-	-	-	-	70	158	90	194	100	212	100	212
Dinitrotoluene 2,3	602-01-7	tech	-	-	-	-	-	-	-	-	20	68	40	104	100	212	100	212
Dinitrotoluene 2,3 ethanolic solution	602-01-7	<20	-	-	-	-	-	-	-	-	40	104	60	140	100	212	100	212
Distilled (Essential) Oils		tech	-	-	-	-	20	68	40	104	60	140	80	176	100	212	100	212
Drawin	34681-10-2	tech	-	-	-	-	-	-	20	68	70	158	90	194	100	212	100	212
Epichlorohydrin	106-89-8	tech	-	-	-	-	20	68	40	104	20	68	40	104	100	212	100	212
Ethane	74-84-0	tech							**Use special type LPG**									
Ethanol	64-17-5	tech	40	104	70	158	40	104	60	140	50	122	70	158	100	212	100	212
Ethyl Acetate	141-78-6	tech	-	-	-	-	-	-	20	68	70	158	90	194	100	212	100	212
Ethyl Acrylate	140-88-5	tech	-	-	-	-	20	68	40	104	60	140	80	176	100	212	100	212
Ethyl Amine	75-04-7	tech	-	-	-	-	-	-	20	68	-	-	20	68	100	212	100	212
Ethyl Amine aq	75-04-7	<70	-	-	-	-	20	68	60	140	20	68	60	140	100	212	100	212
Ethyl Benzene	100-41-4	tech	-	-	-	-	-	-	-	-	40	104	60	140	100	212	100	212
Ethyl Benzoate	93-89-0	tech	-	-	-	-	-	-	20	68	40	104	80	176	100	212	100	212
Ethyl Bromide	74-96-4	tech	-	-	-	-	-	-	-	-	20	68	40	104	100	212	100	212
Ethyl Butyrate	105-54-4	tech	-	-	-	-	-	-	20	68	70	158	90	194	100	212	100	212
Ethyl Cellulose acetonic solution	9004-57-3	<20	-	-	-	-	20	68	40	104	50	122	80	176	100	212	100	212
Ethyl Chloride	75-00-3	tech	-	-	-	-	-	-	-	-	20	68	40	104	100	212	100	212
Ethyl Hexanol	104-76-7	tech	40	104	60	140	-	-	20	68	60	140	80	176	100	212	100	212
Ethyl Iodide	75-03-6	tech	-	-	-	-	-	-	-	-	20	68	40	104	100	212	100	212
Ethyl Mercaptan	75-08-1	tech	-	-	-	-	-	-	-	-	20	68	40	104	100	212	100	212
Ethyl tert-Butyl Ether	637-92-3	tech	-	-	-	-	-	-	-	-	20	68	50	122	100	212	100	212
Ethylene	74-85-1	tech							**Use special type LPG**									
Ethylene Bromide	106-93-4	tech	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Ethylene Chlorobromide	107-04-0	tech	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Ethylene Chlorohydrine	107-07-3	tech	-	-	-	-	-	-	20	68	20	68	40	104	100	212	100	212
Ethylene Glycol	107-21-1	tech	70	158	90	194	90	194	100	212	90	194	100	212	100	212	100	212
Ethylene Glycol Monoethyl Ether	110-80-5	tech	20	68	40	104	40	104	60	140	40	104	60	140	100	212	100	212
Ethylene Glycol Mono-n-butyl Ether	111-76-2	tech	20	68	60	140	20	68	60	140	40	104	60	140	100	212	100	212
Ethylenediamine	107-15-3	tech	-	-	20	68	60	140	80	176	60	140	80	176	100	212	100	212
Fatty Acids C12 - C18		tech	60	140	80	176	40	104	60	140	70	158	90	194	100	212	100	212
Fatty Alcohols C12 - C18		tech	40	104	60	140	40	104	60	140	70	158	90	194	100	212	100	212
Fish Liver Oil		tech	40	104	60	140	30	86	50	122	70	158	90	194	100	212	100	212
Fluorine gaseous, dry	7782-41-4		-	-	-	-	-	-	-	-	-	-	-	-	20	68	20	68
Formaldehyde aq	50-00-0	<40	20	68	50	122	60	140	80	176	80	176	100	212	100	212	100	212

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Chemical Resistance Chart of Products used for Cleaning and Disinfection

Medium	Cas No.	Concn. %	CONTI® CHEM Oil				CONTI® CHEM Standard				CONTI® CHEM Extra / Pharma				CONTI® CHEM Premium / Superior			
			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Formic Acid	64-18-6	tech	-	-	-	-	60	140	80	176	90	194	100	212	100	212	100	212
Formic Acid aq	64-18-6	<20	-	-	-	-	80	176	100	212	90	194	100	212	100	212	100	212
Formic Ether	109-94-4	tech	-	-	-	-	-	-	20	68	40	104	60	140	100	212	100	212
Frigen 11	75-69-4	tech	20	68	40	104	-	-	-	-	40	104	60	140	100	212	100	212
Frigen 112	76-12-0	tech	-	-	20	68	-	-	-	-	20	68	40	104	100	212	100	212
Frigen 112a	76-11-9	tech	-	-	20	68	-	-	-	-	20	68	40	104	100	212	100	212
Frigen 113	76-13-1	tech	-	-	20	68	-	-	-	-	20	68	40	104	100	212	100	212
Frigen 12	75-71-8	tech	20	68	40	104	-	-	20	68	20	68	40	104	100	212	100	212
Frigen 21	75-43-4	tech	20	68	40	104	-	-	-	-	20	68	40	104	100	212	100	212
Fuel Oil, heavy	75-45-6	tech	-	-	20	68	20	68	40	104	20	68	40	104	100	212	100	212
Fuel Oil. Light	68476-33-5	tech	80	176	110	230	-	-	-	-	50	122	90	194	100	212	100	212
Fumaric Acid aq	68476-30-2	tech	80	176	110	230	-	-	-	-	50	122	80	176	100	212	100	212
Fural s. Furfural	110-17-8	any	20	68	40	104	-	-	-	-	40	104	60	140	100	212	100	212
Furfural	98-01-1	tech	-	-	-	-	60	140	80	176	70	158	90	194	100	212	100	212
Gear Lubricant Oil		tech	90	194	100	212	-	-	-	-	50	122	80	176	100	212	100	212
Gelatin aq	9000-70-8	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Glucose	492-62-6	tech	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Glucose aq	492-62-6	any	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Glycerol	56-81-5	tech	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Glycerol aq	56-81-5	any	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Halone 100 2121 s. Methyl Bromide																		
Heptanone-2	110-43-0	tech	-	-	-	-	40	104	60	140	80	176	100	212	100	212	100	212
Hexadecane Acid	57-10-3	tech	60	140	80	176	40	104	60	140	70	158	90	194	100	212	100	212
Hexadecanol	36653-82-4	tech	40	104	60	140	40	104	60	140	70	158	90	194	100	212	100	212
Hexanal	66-25-1	tech	-	-	-	-	20	68	40	104	40	104	60	140	100	212	100	212
Hexane	110-54-3	tech	60	140	80	176	-	-	-	-	50	122	80	176	100	212	100	212
Hydraulic Oil (chlorinated polyphenols)		tech	-	-	-	-	-	-	-	-	50	122	80	176	100	212	100	212
Hydraulic Oil (glycol based)		tech	70	158	90	194	70	158	90	194	70	158	90	194	100	212	100	212
Hydraulic Oil (petroleum oil based)		tech	80	176	100	212	-	-	-	-	50	122	80	176	100	212	100	212
Hydraulic Oil (phosphate ester based)		tech	-	-	-	-	70	158	90	194	70	158	90	194	100	212	100	212
Hydrazine	302-01-2	tech	-	-	40	104	40	104	60	140	40	104	60	140	100	212	100	212
Hydrazine Hydrate	7803-57-8	tech	20	68	60	140	60	140	80	176	70	158	90	194	100	212	100	212
Hydrobromic Acid aq concn. 1	10035-10-6	≤10	20	68	40	104	40	104	60	140	60	140	80	176	100	212	100	212
Hydrobromic Acid aq concn. 2	10035-10-6	≤48	-	-	-	-	-	-	20	68	40	104	60	140	100	212	100	212
Hydrochloric Acid aq concn. 1	7647-01-0	≤10	-	-	20	68	70	158	90	194	90	194	100	212	100	212	100	212
Hydrochloric Acid aq concn. 2	7647-01-0	≤20	-	-	20	68	70	158	90	194	90	194	100	212	100	212	100	212

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			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Hydrochloric Acid aq concn. 3	7647-01-0	≤38	-	-	-	-	50	122	70	158	60	140	80	176	100	212	100	212
Hydrocyanic Acid aq concn. 1	74-90-8	≤20	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Hydrocyanic Acid aq concn. 2	74-90-8	≤90	-	-	20	68	40	104	60	140	60	140	80	176	100	212	100	212
Hydrofluoric Acid aq concn. 1	76364-39-3	≤10	-	-	-	-	50	122	70	158	70	158	90	194	100	212	100	212
Hydrofluoric Acid aq concn. 2	7664-39-3	≤30	-	-	-	-	20	68	50	122	70	158	90	194	60	140	100	212
Hydrofluoric Acid aq concn. 3	7664-39-3	≤75	-	-	-	-	-		40	104	70	158	80	176	60	140	100	212
Hydrogen gaseous	1333-74-0	any	60	140	90	194	60	140	90	194	60	140	90	194	100	212	100	212
Hydrogen Peroxide aq concn. 1	7722-84-1	≤10	-	-	20	68	60	140	80	176	-	-	60	140	100	212	100	212
Hydrogen Peroxide aq concn. 2	7722-84-1	≤30	-	-	-	-	60	140	80	176	-	-	40	104	100	212	100	212
Hydrogen Peroxide aq concn. 3	7722-84-1	≤90	-	-	-	-	20	68	40	104	-	-	20	68	100	212	100	212
Hydrogen Sulfide gaseous, dry	7783-06-4	any	-	-	-	-	60	140	80	176	60	140	80	176	100	212	100	212
Insulating (Transformer) Oil, petroleum based		tech	40	104	80	176	-	-	-	-	40	104	80	176	100	212	100	212
Insulating Oil, non-flammable (chlorinated aromatics)		tech	-	-	-	-	-	-	-	-	40	104	80	176	100	212	100	212
IRM Oil 901		tech	80	176	100	212	-	-	-	-	50	122	80	176	100	212	100	212
IRM Oil 902		tech	60	140	80	176	-	-	-	-	50	122	80	176	100	212	100	212
IRM Oil 903		tech	60	140	80	176	-	-	-	-	50	122	80	176	100	212	100	212
Iron Nitrate aq	7782-61-8	any	70	158	90	194	90	194	100	212	90	194	100	212	100	212	100	212
Iron-II-Chloride aq	13478-10-9	any	70	158	90	194	90	194	100	212	90	194	100	212	100	212	100	212
Iron-III-Chloride aq	10025-77-1	any	70	158	90	194	90	194	100	212	90	194	100	212	100	212	100	212
Iron-III-Sulfate aq	15244-10-7	any	70	158	90	194	90	194	100	212	90	194	100	212	100	212	100	212
Iron-II-Sulfate aq	7782-63-0	any	70	158	90	194	90	194	100	212	90	194	100	212	100	212	100	212
Isobutanol	78-83-1	tech	40	104	70	158	60	140	90	194	80	176	100	212	100	212	100	212
Isocyanate Desmodur 44	101-68-8	tech	-	-	-	-	-	-	40	104	40	104	80	176	100	212	100	212
Isocyanate Desmodur 44 V 20	9016-87-9	tech	-	-	-	-	50	122	80	176	50	122	80	176	100	212	100	212
Isocyanate Desmodur H	822-06-0	tech	-	-	-	-	20	68	40	104	40	104	80	176	100	212	100	212
Isocyanate Desmodur T	584-84-9	tech	-	-	-	-	-	-	40	104	40	104	80	176	100	212	100	212
Isocyanate Desmodur T 65	26471-62-5	tech	-	-	-	-	-	-	20	68	50	122	80	176	100	212	100	212
Isocyanate Desmodur V 80 P		tech	-	-	-	-	-	-	40	104	40	104	80	176	100	212	100	212
Isophorone	78-59-1	tech	-	-	-	-	20	68	50	122	70	158	90	194	100	212	100	212
Isopropanol	67-63-0	tech	40	104	70	158	80	176	100	212	80	176	100	212	100	212	100	212
Jet Propellent Jp1-Jp5		tech	40	104	60	140	-	-	-	-	50	122	80	176	100	212	100	212
JET-A1 s. Kerosene																		
Kerosene	8008-20-6	tech	80	176	110	230	-	-	-	-	50	122	80	176	100	212	100	212

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Chemical Resistance Chart

Date: July 2014

Chemical Resistance Chart of Products used for Cleaning and Disinfection

Medium	Cas No.	Concn. %	CONTI® CHEM Oil				CONTI® CHEM Standard				CONTI® CHEM Extra / Pharma				CONTI® CHEM Premium / Superior			
			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Lard	61789-99-9	any	60	140	80	176	-	-	40	104	60	140	80	176	100	212	100	212
Lead Acetate aq	6080-56-4	any	20	68	40	104	80	176	100	212	80	176	100	212	100	212	100	212
Lead Arseniate aq	3687-31-8	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Lead Nitrate aq	10099-74-8	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Lead Sulfate aq	7446-14-2	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Lead Tetraethyl (Tetraethyllead)	78-00-2	tech	20	68	40	104	-	-	20	68	50	122	80	176	100	212	100	212
Linoleic Acid	60-33-3	tech	60	140	80	176	40	104	60	140	70	158	90	194	100	212	100	212
Linseed Oil	8001-26-1	tech	80	176	100	212	20	68	50	122	80	176	100	212	100	212	100	212
Liquid Manure aq		any	20	68	40	104	60	140	80	176	80	176	100	212	100	212	100	212
Magnesium Carbonate aq	546-93-0	≤1	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Magnesium Chloride aq	7786-30-3	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Magnesium Hydroxide aq	1309-42-8	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Magnesium Nitrate aq	13446-18-9	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Magnesium Sulfate aq	10034-99-8	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Malic Acid aq	636-61-3	any	20	68	40	104	60	140	80	176	80	176	100	212	100	212	100	212
Mercuric Cyanide aq	592-04-1	any	40	104	60	140	60	140	80	176	80	176	100	212	100	212	100	212
Mercuric Nitrate Monohydrate aq	7783-34-8	any	20	68	60	140	40	104	80	176	60	140	80	176	100	212	100	212
Mercury-I-Chloride aq	10112-91-1	any	40	104	60	140	60	140	80	176	80	176	100	212	100	212	100	212
Methane s. Natural Gas																		
Methanol	67-56-1	tech	50	122	70	158	65	149	80	176	65	149	80	176	100	212	100	212
Methyl Bromide	74-83-9	tech	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Methyl Chloride	74-87-3	tech	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Methyl Ethyl Ketone (MEK)	78-93-3	tech	-	-	-	-	40	104	60	140	80	176	90	194	100	212	100	212
Methyl Isobutyl Ketone (MIBK)	108-10-1	tech	-	-	-	-	-	-	20	68	60	140	80	176	100	212	100	212
Methyl Methacrylate	80-62-6	tech	-	-	-	-	20	68	40	104	40	104	60	140	100	212	100	212
Methylene Chloride	75-09-2	tech	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Methylene Chlorobromide s. Bromochloromethane																		
Milk		any	80	176	100	212	80	176	100	212	80	176	100	212	100	212	100	212
N-[3-(trimethoxysilyl) propyl]-1,2-ethanediamine	1760-24-3	tech	-	-	-	-	-	-	40	104	70	158	90	194	100	212	100	212
Naphta s. Petroleum containing hydrogen sulfide																		
Naphthalene	91-20-3	tech	-	-	-	-	-	-	-	-	40	104	80	176	100	212	100	212
Natural Gas	8006-14-2	tech							**Use special type LPG**									
Nickel Chloride aq	7718-54-9	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Nickel Nitrate aq	13478-00-7	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Nickel Sulfate aq	10101-97-0	any	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Nitrating Acid (50% nitric acid 50% sulfuric acid)		any	-	-	-	-	-	-	-	-	-	-	20	68	100	212	100	212

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Chemical Resistance Chart of Products used for Cleaning and Disinfection

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			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Nitric Acid aq concn. 1	7697-37-2	≤10	-	-	20	68	50	122	70	158	90	194	100	212	100	212	100	212
Nitric Acid aq concn. 2	7697-37-2	≤20	-	-	-	-	40	104	60	140	70	158	90	194	100	212	100	212
Nitric Acid aq concn. 3	7697-37-2	≤40	-	-	-	-	20	68	40	104	50	122	70	158	100	212	100	212
Nitric Acid aq concn. 4	7697-37-2	≤70	-	-	-	-	-	-	-	-	-	-	50	122	100	212	100	212
Nitric Acid furning	52583-42-3	≥90	-	-	-	-	-	-	-	-	-	-	-	-	100	212	100	212
Nictro Lacquer (Cellulose Lacquer)		tech	-	-	-	-	-	-	-	-	40	104	60	140	100	212	100	212
Nitrobenzene	98-95-3	tech	-	-	-	-	-	-	-	-	60	140	80	176	100	212	100	212
Nitrogen gaseous	7727-37-9	any	90	194	110	230	100	212	120	248	90	194	100	212	100	212	110	230
Nitrohydrochloric Acid aq	8007-56-5	any	-	-	-	-	-	-	-	-	-	-	-		100	212	100	212
N-Methyl-Pyrrolidone	872-50-4	tech	-	-	-	-	40	104	60	140	40	104	60	140	100	212	100	212
Octane	111-65-9	tech	50	122	80	176	-	-	-	-	50	122	80	176	100	212	100	212
Octanole-1	111-87-5	tech	40	104	80	176	70	158	90	194	70	158	90	194	100	212	100	212
Oil of Cottonseed	98-87-3	tech	60	140	80	176	-	-	-	-	60	140	80	176	100	212	100	212
Oleic Acid	112-80-1	tech	60	140	80	176	40	104	60	140	70	158	90	194	100	212	100	212
Oleoate s. Oleic Acid																		
Olive Oil	8001-25-0	tech	80	176	100	212	30	86	50	122	70	158	90	194	100	212	100	212
Oxalic Acid aq	144-62-7	any	40	104	80	176	40	104	80	176	80	176	100	212	100	212	100	212
Oxygen, gaseous	7782-44-7	any	-	-	-	-	60	140	90	194	80	176	100	212	100	212	100	212
Ozone concn. < 200 pphm	10028-15-6		-	-	-	-	40	104	60	140	-	-	20	68	100	212	100	212
Paraffin Wax	8002-74-2	tech	80	176	100	212	40	104	60	140	60	140	80	176	100	212	100	212
Paraformalin aq	30525-89-4	any	20	68	60	140	60	140	80	176	60	140	80	176	100	212	100	212
Pentanol-1	71-41-0	tech	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Pentanone-3	96-22-0	tech	-	-	-	-	20	68	40	104	60	140	80	176	100	212	100	212
Pentyl Acetate	628-63-7	tech	-	-	-	-	-	-	20	68	80	176	90	194	100	212	100	212
Pentyl Chloride-1	543-59-9	tech	-	-	-	-	-	-	-	-	-	-	60	140	100	212	100	212
Pentylamine-1	110-58-7	tech	-	-	20	68	20	68	40	104	40	104	60	140	100	212	100	212
Perchloric Acid aq	7601-90-3	any	-	-	-	-	70	158	90	194	-	-	60	140	100	212	100	212
Peroxyacetic Acid	79-21-0	≤32	-	-	-	-	20	68	40	104	-	-	60	140	100	212	100	212
Petrohol s. Isopropanol																		
Petrol, Gasoline	8006-61-9	tech	50	122	80	176	-	-	-	-	50	122	80	176	100	212	100	212
Petroleum containing hydrogen sulfide		tech	-	-	-	-	-	-	-	-	50	122	80	176	100	212	100	212
Petroleum Ether (Petroleum Benzin)	8032-32-4	tech	40	104	60	140	-	-	-	-	40	104	70	158	100	212	100	212
Petroleum free of hydrogen sulfide		tech	80	176	110	230	-	-	-	-	50	122	80	176	100	212	100	212
Phenethylene s. Styrene																		
Phenol	108-95-2	tech	-	-	-	-	70	158	90	194	80	176	100	212	100	212	100	212
Phosgene	75-44-5	any	-	-	-	-	-	-	20	68	-	-	-	-	100	212	100	212
Phosphoric Acid aq concn. 1	7664-38-2	≤10	80	176	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Phosphoric Acid aq concn. 2	7664-38-2	≤25	80	176	100	212	90	194	100	212	90	194	100	212	100	212	100	212

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			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Phosphoric Acid aq concn. 2	7664-38-2	≤25	80	176	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Phosphoric Acid aq concn. 3	7664-38-2	<65	80	176	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Phosphoric Acid aq concn. 4	7664-38-2	<85	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Phthalic Acid	88-99-3	tech	40	104	60	140	70	158	90	194	70	158	90	194	100	212	100	212
Phthalic Acid aq	88-99-3	≤1	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Phthalic Acid Dibutyl Ester	84-74-2	tech	20	68	40	104	20	68	40	104	80	176	100	212	100	212	100	212
Phthalic Acid Diethyl Ester	84-66-2	tech	20	68	40	104	20	68	40	104	80	176	100	212	100	212	100	212
Phthalic Acid Dioctyl Ester	117-81-7	tech	20	68	40	104	20	68	40	104	80	176	100	212	100	212	100	212
Phthalic Acid Dipentyl Ester	131-18-0	tech	20	68	40	104	20	68	40	104	80	176	100	212	100	212	100	212
Phthalic Anhydride	85-44-9	≤1	60	140	80	176	70	158	90	194	70	158	90	194	100	212	100	212
Picric Acid aq	88-89-1	≤1	20	68	60	140	40	104	60	140	60	140	80	176	100	212	100	212
Polydimenthylsiloxane	9016-00-6	tech	20	68	40	104	-	-	20	68	70	158	90	194	100	212	100	212
Polyol Desmophen 2000	24937-05-1	tech	-	-	50	122	50	122	80	176	50	122	80	176	100	212	100	212
Polyol Desmophen 800	50830-64-3	tech	20	68	50	122	50	122	80	176	50	122	80	176	100	212	100	212
Polyol Polymeg 2000	25190-06-1	tech	-	-	50	122	50	122	80	176	50	122	80	176	100	212	100	212
Potassium Acetate aq	127-08-2	any	20	68	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Potassium Borate aq	1332-77-0	≤1	60	140	80	176	60	140	80	176	80	176	100	212	100	212	100	212
Potassium Bromide aq	7758-02-3	<40	60	140	80	176	70	158	90	194	90	194	100	212	100	212	100	212
Potassium Carbonate aq	584-08-7	any	40	104	60	140	60	140	80	176	60	140	80	176	100	212	100	212
Potassium Chloride aq	7447-40-7	≤30	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Potassium Chorate aq	698078	≤10	40	104	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Potassium Cyanide aq	151-50-8	≤40	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Potassium Dichromate aq	7778-50-9	≤15	20	68	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Potassium Hydrogencarbonate aq	298-14-6	≤25	40	104	60	140	60	140	80	176	60	140	80	176	100	212	100	212
Potassium Hydroxide aq concn. 1	1310-58-3	≤10	-	-	40	104	90	194	100	212	90	194	100	212	100	212	100	212
Potassium Hydroxide aq concn. 2	1310-58-3	≤25	-	-	40	104	90	194	100	212	90	194	100	212	100	212	100	212
Potassium Hydroxide aq concn. 3	1310-58-3	≤50	-	-	-	-	90	194	100	212	90	194	100	212	100	212	100	212
Potassium Hypochlorite aq	7778-66-7	≤10	-	-	-	-	70	158	90	194	-	-	60	140	100	212	100	212
Potassium Iodide aq	7681-11-0	any	40	104	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Potassium Nitrate aq	7757-79-1	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Potassium Oxide aq	12136-45-7	tech	40	104	60	140	60	140	80	176	60	140	80	176	100	212	100	212
Potassium Permanganate aq concn. 1	7722-64-7	≤30	20	68	40	104	70	158	80	176	70	158	90	194	100	212	100	212
Potassium Permanganate aq concn. 2	7722-64-7	≤70	-	-	-	-	70	158	80	176	70	158	90	194	100	212	100	212
Potassium Sulfate aq	7778-80-5	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Potassium Sulfide aq	1312-73-8	any	40	104	60	140	60	140	80	176	80	176	100	212	100	212	100	212
Potassium Sulfite aq	10117-38-1	any	20	68	40	104	80	176	100	212	80	176	100	212	100	212	100	212

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			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Printer's Colours		tech	40	104	60	140	-	-	-	-	70	158	90	194	100	212	100	212
Propane gaseous	74-98-6	any	**Use special type LPG**															
Propane liquid	74-98-6	tech	**Use special type LPG**															
Propanol-1	71-23-8	tech	40	104	70	158	80	176	100	212	80	176	100	212	100	212	100	212
Propenol-3 s, Allyl Alcohol																		
Propionic Acid	79-09-4	tech	-	-	-	-	60	140	80	176	60	140	80	176	100	212	100	212
Propionic Acid aq	79-09-4	≤50	-	-	-	-	40	104	60	140	60	140	80	176	100	212	100	212
P-Tert-Pentyl Phenol alcoholic solution	80-46-6	≤20	20	68	40	104	50	122	80	176	80	176	100	212	100	212	100	212
Pyene	129-00-0	tech	40	104	60	140	-	-	-	-	60	140	80	176	100	212	100	212
Pyridine	110-86-1	tech	-	-	-	-	20	68	40	104	70	158	90	194	100	212	100	212
Sal Volatile s. Ammonium Carbonate aq																		
Salicylic Acid aq	69-72-7	any	60	140	80	176	60	140	80	176	60	140	80	176	100	212	100	212
Silane A 172	1067-53-4	tech	-	-	20	68	20	68	40	104	50	122	80	176	100	212	100	212
Silane A 189	4420-74-0	tech	-	-	-	-	-	-	20	68	50	122	80	176	100	212	100	212
Silicone Oil	63148-58-3	tech	20	68	40	104	-	-	20	68	70	158	90	194	100	212	100	212
Silver Nitrate aq	7761-88-8	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Soap Water	68952-95-4	any	80	176	100	212	80	176	100	212	80	176	100	212	100	212	100	212
Sodium Acetate aq	127-09-3	any	40	104	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Sodium Bicarbonate aq	144-55-8	any	40	104	60	140	60	140	80	176	60	140	80	176	100	212	100	212
Sodium Carbonate aq	497-19-8	any	40	104	60	140	60	140	80	176	60	140	80	176	100	212	100	212
Sodium Chlorate aq	7775-09-9	any	40	104	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Sodium Chloride aq	7647-14-5	any	80	176	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Sodium Cyanide aq	143-33-9	≤40	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Sodium Disulfite aq	7681-57-4	any	20	68	60	140	80	176	100	212	60	140	80	176	100	212	100	212
Sodium Hydroxide aq concn. 1	1310-73-2	≤10	-	-	40	104	90	194	100	212	90	194	100	212	100	212	100	212
Sodium Hydroxide aq concn. 2	1310-73-2	≤25	-	-	40	104	90	194	100	212	90	194	100	212	100	212	100	212
Sodium Hydroxide aq concn. 3	1310-73-2	≤50	-	-	-	-	90	194	100	212	90	194	100	212	100	212	100	212
Sodium Hypochlorite aq	7681-52-9	≤13	-	-	-	-	70	158	90	194	-	-	60	140	100	212	100	212
Sodium Nitrate aq	7631-99-4	any	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Sodium Nitrite aq	7632-00-0	any	40	104	60	140	80	176	90	194	80	176	90	194	100	212	100	212
Sodium Perborate aq	10486-00-7	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Sodium Phosphate, tert-, aq	7601-54-9	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Sodium Silicate aq	13870-30-9	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Sodium Sulfate aq	7757-82-6	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212
Sodium Sulfide aq	1313-84-4	any	40	104	60	140	60	140	80	176	80	176	100	212	100	212	100	212
Sodium Sulphide Nonahydrate s. Sodium Sulfide aq																		
Sodium Tetraborate Decahydrate aq	1303-96-4	any	60	140	80	176	80	176	100	212	80	176	100	212	100	212	100	212

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Chemical Resistance Chart

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Chemical Resistance Chart of Products used for Cleaning and Disinfection

Medium	Cas No.	Concn. %	CONTI® CHEM Oil				CONTI® CHEM Standard				CONTI® CHEM Extra / Pharma				CONTI® CHEM Premium / Superior			
			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Sodium Thiosulfate aq	7772-98-7	any	40	104	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Spirit s. Ethanol																		
Stannous Chloride s. Tin-II-Chloride aq																		
Starch aq	9005-84-9	any	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Stearic aq	57-11-4	tech	60	140	80	176	40	104	60	140	70	158	90	194	100	212	100	212
Styrene	100-42-5	tech	-	-	-	-	-	-	-	-	-	-	50	122	100	212	100	212
Sucrose aq	57-50-1	any	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Sulfamic Acid aq	5329-14-6	≤25	40	104	60	140	80	176	100	212	90	194	100	212	100	212	100	212
Sulfur Dioxide	7446-09-5	tech	-	-	-	-	10	50	30	86	10	50	30	86	100	212	100	212
Sulfur Dioxide, gaseous		any	-	-	-	-	60	140	80	176	60	140	80	176	100	212	100	212
Sulfur Trioxide	7446-11-9	tech	-	-	-	-	20	68	40	104	-	-	40	104	100	212	100	212
Sulfur, christalline	7704-34-9	tech	-	-	-	-	100	212	100	212	80	176	100	212	100	212	100	212
Sulfur, liquid	7704-34-9	tech	-	-	-	-	-	-	130	266	-	-	-	-	-	-	130	266
Sulfuric Acid aq concn. 1	7664-93-9	≤10	-	-	20	68	90	194	100	212	90	194	100	212	100	212	100	212
Sulfuric Acid aq concn. 2	7664-93-9	≤25	-	-	-	-	70	158	90	194	90	194	100	212	100	212	100	212
Sulfuric Acid aq concn. 3	7664-93-9	≤50	-	-	-	-	70	158	90	194	90	194	100	212	100	212	100	212
Sulfuric Acid aq concn. 4	7664-93-9	≤75	-	-	-	-	50	122	70	158	90	194	100	212	100	212	100	212
Sulfuric Acid aq concn. 5	7664-93-9	≤98	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Sulfuric Acid furning	8014-95-7	tech	-	-	-	-	-	-	-	-	-	-	-	-	100	212	100	212
Sulfurous Acid aq	7782-99-2	≤6	40	104	60	140	60	140	80	176	80	176	100	212	100	212	100	212
Tallow Acid	61790-38-3	tech	60	140	80	176	40	104	60	140	70	158	90	194	100	212	100	212
Tannic Acid aq	1401-55-4	≤50	20	68	40	104	60	140	80	176	60	140	80	176	100	212	100	212
Tartaric Acid aq	87-69-4	any	40	104	60	140	60	140	80	176	80	176	100	212	100	212	100	212
Tert-Butyl Acetoacetate	1694-31-1	tech	-		-		-		-		60	140	80	176	100	212	100	212
Tert-Pentyl Alcohol	75-85-4	tech	20	68	60	140	60	140	80	176	80	176	100	212	100	212	100	212
Tetrachloroethylene	127-18-4	tech	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Tetrachloromethane	56-23-5	tech	-	-	-	-	-	-	-	-	-	-	40	104	100	212	100	212
Tetraethoxysilane	78-10-4	tech	20	68	40	104	-	-	20	68	70	158	90	194	100	212	100	212
Tetrahydrofuran	109-99-9	tech	-	-	-	-	-	-	-	-	50	122	80	176	100	212	100	212
Tetralin	119-64-2	tech	-	-	-	-	-	-	-	-	40	104	80	176	100	212	100	212
Tin-II-Chloride aq	7772-99-8	any	40	104	60	140	60	140	80	176	90	194	100	212	100	212	100	212
Tin-IV-Chloride aq	7646-78-8	any	-	-	-	-	-	-	-	-	-		30	86	100	212	100	212
Toluene	108-88-3	tech	-	-	-	-	-	-	-	-	40	104	80	176	100	212	100	212
Trichloroethylene	79-01-6	tech	-	-	-	-	-	-	-	-	-		40	104	100	212	100	212
Triethanolamine	102-71-6	tech	-	-	20	68	70	158	90	194	70	158	90	194	100	212	100	212
Trimethylpentane 2,2,4	540-84-1	tech	50	122	80	176	-	-	-	-	50	122	80	176	100	212	100	212
Turpentine mixture	8006-64-2	tech	40	104	60	140	-	-	-	-	50	122	80	176	100	212	100	212
Urea aq	57-13-6	≤35	60	140	80	176	90	194	100	212	90	194	100	212	100	212	100	212
Urine aq		any	40	104	60	140	80	176	100	212	90	194	100	212	100	212	100	212
Vaseline	8009-03-8	tech	80	176	100	212	-	-	-	-	40	104	80	176	100	212	100	212
Vegetable Oil		tech	80	176	100	212	20	68	40	104	50	122	80	176	100	212	100	212

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Medium	Cas No.	Concn. %	CONTI® CHEM Oil				CONTI® CHEM Standard				CONTI® CHEM Extra / Pharma				CONTI® CHEM Premium / Superior			
			DE		KE		DE		KE		DE		KE		DE		KE	
			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Vinyl Chloride	75-01-4	tech	-	-	-	-	20	68	40	104	-	-	20	68	100	212	100	212
Vinyltrimethoxysilane	2768-02-7	tech	20	68	40	104	-	-	20	68	70	158	90	194	100	212	100	212
Waste Gases containing carbon dioxide		any	70	158	90	194	100	212	120	248	90	194	100	212	100	212	120	248
Waste Gases containing darbon monoxide		any	70	158	90	194	100	212	120	248	90	194	100	212	100	212	120	248
Waste Gases containing hydrochloric acid		any	60	140	80	176	100	212	120	248	90	194	100	212	100	212	120	248
Waste Gases containing hydrogen fluoride		≤1	60	140	80	176	100	212	120	248	90	194	100	212	100	212	120	248
Waste Gases containing nitrosylsulfuric acid		≤1	60	140	80	176	100	212	120	248	90	194	100	212	100	212	120	248
Waste Gases containing sulfur dioxide		≤5	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Waste Gases containing sulfuric acid		≤2	60	140	80	176	80	176	100	212	90	194	100	212	100	212	100	212
Waste Oil (animal/vegetable based)		any	80	176	100	212	20	68	50	122	90	194	100	212	100	212	100	212
Waste Oil (aromatic based)		any	-	-	20	68	-	-	-	-	50	122	80	176	100	212	100	212
Waste Oil (glycol based)		any	80	176	100	212	80	176	100	212	90	194	100	212	100	212	100	212
Waste Oil (petroleum oil based)		any	80	176	100	212	-	-	-	-	50	122	80	176	100	212	100	212
Waste Oil (phosphate ester based)		any	-	-	40	104	50	122	80	176	80	176	100	212	100	212	100	212
Waste Pickling Acid (butcher)		any	-	-	-	-	100	212	120	248	90	194	100	212	100	212	120	248
Waste Pickling Acid (dyeing plant)		any	-	-	-	-	50	122	80	176	90	194	100	212	100	212	100	212
Waste Pickling Acid (metal industries)		any	-	-	-	-	100	212	120	248	90	194	100	212	100	212	120	248
Waste Pickling Acid (tannery)		any	-	-	-	-	100	212	120	248	90	194	100	212	100	212	120	248
Waste Pickling Acid (wood working industry)		any	-	-	-	-	50	122	80	176	60	140	90	194	100	212	100	212
Waste Water, alkaline, acidic		any	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Water (Distilled Water)		tech	60	140	80	176	60	140	80	176	90	194	100	212	100	212	100	212
Water (Mine Drainage Water, acid)		any	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Water (River Water)		any	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Water (Sea Water)		any	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Water (Tap Water, soft/hard)		tech	90	194	100	212	90	194	100	212	90	194	100	212	100	212	100	212
Water de-ionised		tech	60	140	80	176	60	140	80	176	90	194	100	212	100	212	100	212
Water demineralised		tech	60	140	80	176	60	140	80	176	90	194	100	212	100	212	100	212
Water desalted		tech	60	140	80	176	60	140	80	176	90	194	100	212	100	212	100	212
Water radiation contaminated		tech	-	-	40	104	-	-	40	104	90	194	100	212	100	212	100	212

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			°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
Water Vapour	7732-18-5	tech	**Use special type SD**															
Whale Oil		tech	40	104	60	140	20	68	40	104	70	158	90	194	100	212	100	212
White Spirit 150/180	64742-89-8	tech	40	104	60	140	-	-	-	-	50	122	80	176	100	212	100	212
Wine (red/white)		tech	70	158	100	212	80	176	100	212	80	176	100	212	100	212	100	212
Xenon		tech	60	140	90	194	60	140	90	194	60	140	90	194	100	212	100	212
Xylamon		tech	-	-	-	-	-	-	-	-	45	113	80	176	100	212	100	212
Xylol isomer mixture	1330-20-7	tech	-	-	20	68	-	-	-	-	45	113	80	176	100	212	100	212
Zinc Chloride aq	7646-85-7	any	40	104	60	140	80	176	100	212	80	176	100	212	100	212	100	212
Zinc Sulfate aq	7446-19-7	any	40	104	60	140	90	194	100	212	90	194	100	212	100	212	100	212

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