

Chemical Resistance of ACLATHAN[®] / Vulkollan[®]

The analysis has been carried out at room temperature, unless otherwise noted.

Coding: 1 = low or no attack
2 = medium attack
3 = strong attack

+ = no data available, **presumably applicable**
- = no data available, **presumably not applicable**
n.a. = no data available, **prediction is not possible**

SOL = aqueous solution (without declaration of concentration ⇨ saturated solution)

The results are related to laboratory analyses and may differ in practical application.

Name	T [°C]	Code	Name	T [°C]	Code
A			antimony (III)-chloride - SOL	20	-
accumulator acid	20	3	aqua regia HNO ₃ + HCL	20	3
acid exhaust gases	60	-	arsenic acid - SOL	20	3
acetaldehyde	20	3	asphalt	100	-
acetamide	20	-	ASTM fuel A	60	1
acetic acid - SOL < 20%	20	2	ASTM fuel B	60	3
acetic acid - SOL > 20%	20	3	ASTM fuel C	60	3
acetic anhydride	20	3	ASTM oil #1	100	1
acetone	20	3	ASTM oil #2	100	2
acetophenone	20	-	ASTM oil #3	100	2
acetylene	60	1	ATE brake fluid	100	-
acrylonitrile	60	-	ATF oil	100	2
acrylic ester	20	-			
adipic acid - SOL	20	+			
air	80	1			
alum - SOL	60	2	B		
allyl alcohol	60	3	barium chloride	20	1
aluminum sulfate - SOL	60	1	barium hydroxide - SOL	60	3
ammonia gas	20	3	beer	20	1
ammonia - SOL 25%	20	3	benzaldehyde - SOL	60	3
ammonium acetate	60	3	benzene	20	3
ammonium carbonate - SOL	60	3	benzoic acid - SOL	60	3
ammonium chloride - SOL	60	3	benzyl alcohol	60	3
ammonium fluoride	20	-	bio-oils	60	1
ammonium nitrate - SOL	60	3	bitumen	60	2
ammonium phosphate - SOL	60	3	biphenyl (diphenyl)	20	+
ammonium sulfide - SOL	60	3	blast furnace exhaust gas	100	+
ammonium sulfate - SOL	60	3	beef tallow emulsion, sulfurized	20	-
amyl acetate	20	3	bone fat	60	1
amyl alcohol	60	3	borax - SOL	60	2
aniline	60	3	boric acid - SOL	60	2
aniline hydrochloride	100	3	brakefluid (glycol ether)	80	-
anisole (methyl phenyl ether)	20	-	brandy	20	2
antacid	20	3	bromine	20	3
anthraquinone sulfonic acid - SOL	30	3	bromobenzene	20	3

The analysis has been carried out at room temperature, unless otherwise noted.

Coding: 1 = low or no attack
2 = medium attack
3 = strong attack

+ = no data available, **presumably applicable**
- = no data available, **presumably not applicable**
n.a. = no data available, **prediction is not possible**

SOL = aqueous solution (without declaration of concentration \Rightarrow saturated solution)

The results are related to laboratory analyses and may differ in practical application.

Name	T [°C]	Code	Name	T [°C]	Code
bromochloro methane	20	-	cyclohexane	20	2
butadien	60	+	cyclohexanol	20	3
butanediol	20	+	cyclohexanone	20	3
butane	20	1	cyclohexylamine	20	-
butene, fluid	20	1	D		
butanol	20	1	decahydronaphthalene (Decalin)	20	-
butynediol	20	1	detergents in general	60	-
butyric acid	20	-	detergent, synthetic	60	n.a.
butter	20	1	dextrin - SOL	60	2
butyl acetate	20	3	diacetone alcohol	20	n.a.
butyric aldehyde	20	-	diethyl ether	20	2
C			diethylamine	20	-
calcium chloride - SOL	60	2	diethylene glycol	20	2
calcium hydroxide - SOL	60	3	diethyl sebacate	20	-
calcium hypochlorite - SOL	60	3	dibenzyl ether	20	-
calcium nitrate - SOL	40	-	dibutyl ether	20	-
calcium phosphate - SOL	20	+	dibutyl phthalate	60	1
calcium bisulfite - SOL	60	2	dibutyl sebacate	60	+
camphor	20	+	dichloroethane	20	3
carbolineum	60	-	dichloroethylene	20	3
carbon dioxide	60	1	dichlorobenzene	20	3
carbon disulfide	20	3	dichlorobutene	20	3
carbon monoxide	60	2	dichloroacetic acid	20	3
castor oil	20	1	dichloroacetic acid methyl ester	20	3
cellosolve (2-ethoxyethanol)	20	3	diesel fuel	60	1
chloral hydrate - SOL	60	-	diethyl ether	20	2
chloramine - SOL	20	+	diglycolic acid - SOL	60	-
chlorinated solvents	20	3	dihexyl phthalate	60	-
chlorine	20	-	diisobutyl ketone	60	-
chloric acid - SOL	20	-	dimethyl ether	20	2
chlorinated lime - SOL	60	3	dimethylamine	20	3
chlorine water, sat.	20	-	dimethyl formamide	20	3
chloroacetic acid	20	3	dinonyl phthalate	20	-
chlorobenzene	20	3	dioctyl sebacate	60	3
chloroethanol	20	-	dioxan	60	3
chlorosulfonic acid	20	-	diphenyl ether	30	-
chloroform	20	3	diphyl	20	3
chrome bath	20	-	E		
chromic acid - SOL	60	-	epichlorohydrin	20	3
cinene	20	2	ethane	20	1
citric acid - SOL	60	3	ethanol (ethyl alcohol)	20	2
cocoa butter	20	1	ethanolamine	20	3
coconut oil	80	1	ether, gen.	20	2
coconut grease alcohol	20	-	essential oils	20	2
cod liver oil	20	1	ethyl acetate	20	3
coke oven gas	20	-	ethyl acrylate	20	3
copper (I) chloride - SOL	60	2	ethyl benzene	20	3
copper fluoride - SOL	60	-	ethyl chloride	20	3
copper nitrate - SOL	60	-	ethylenediamine	20	3
copper sulfate - SOL	60	2	ethylene	20	1
corn oil	60	1	ethylene bromide	20	3
cottonseed oil	20	1	ethylene chloride	20	2
cresol - SOL	40	2	ethylene dichloride	20	3
crotonaldehyde	20	+	ethylene glycol	20	2
crude oil	20	1			

The analysis has been carried out at room temperature, unless otherwise noted.

Coding: 1 = low or no attack
2 = medium attack
3 = strong attack

+ = no data available, **presumably applicable**
- = no data available, **presumably not applicable**
n.a. = no data available, **prediction is not possible**

SOL = aqueous solution (without declaration of concentration → saturated solution)

The results are related to laboratory analyses and may differ in practical application.

Name	T [°C]	Code	Name	T [°C]	Code
ethylene silicate	20	1	H		
Exhaust gases: ct. hydrogen fluoride	60	-	heptane	60	1
Exhaust gases: ct. carbon dioxide	60	+	hexachloro butadiene	20	-
Exhaust gases: ct. carbon monoxide	60	1	hexachloro cyclohexane	20	2
			hexafluorosilicic acid	20	-
			hexaldehyde	20	-
			hexane	60	1
			hexanetriol	20	-
			hexene	20	1
F			hydraulic fluids	20	3
FAM test fuels DIN 51 604-A	20	1	hydraulic oils H and H-L	80	1
FAM test fuels DIN 51 604-B	20	2	hydraulic oils H-LP	80	1
fat, animal	80	1	hydraulic oils HFA (oil/water)	60	n.a.
fat, vegetable	80	1	hydraulic oils HFB (water/oil)	60	n.a.
fatty alcohol	20	-	hydraulic oils HFC (glycol-water-sol)	60	n.a.
fatty acids	20	3	hydraulic oils HFD-R (phosphoric acid ester)	20	-
fir leaf oil	20	2	hydrazine hydrate	20	2
fluorine, dry	60	-	hydrochloric acid	20	3
fluorobenzene	20	3	hydrocyanic acid	20	-
fluorocarbon oil	100	+	hydrofluoric acid	20	3
fluorosilicic acid	100	-	hydrogen	20	1
formaldehyde	60	-	hydrogen bromide	60	-
formamide, pur	60	-	hydrogen chloride	60	-
formic acid	20	3	hydrogen peroxide - SOL	20	-
fuel oil	60	1	hydrogen sulfide	60	+
furfural	20	3	hydroquinone - SOL	20	-
fruit juices	40	2	hydrosulfite - SOL	40	-
furan	20	3	hydroxylamine sulfate - SOL	40	-
furfuryl alcohol	20	3			
G			I		
gas, dry	60	-	illuminating gas, benzene-free	20	1
gas oil	80	1	iodine	20	3
gasoline (petroleum ether)	60	1	iodoform	20	-
gasoline-benzene mixture, 80/20%	20	1	iron (III) chloride - SOL	60	n.a.
gasoline-benzene mixture, 70/30%	20	1	iron sulfate	60	2
gasoline-benzene mixture, 60/40%	20	2	isobutanol	20	3
gasoline-benzene mixture, 50/50%	20	2	isooctane	20	2
gasoline-benzene-ethanol mixture, 50/30/20%	20	3	isophorone	20	2
gear oil	60	2	isopropyl acetate	60	3
gelatine - SOL	40	+	isopropyl chloride	20	3
glauber salt	20	-	isopropyl ether	60	3
glucose - SOL	60	2			
glue	20	1			
glycerol	20	2	J		
glycerol chloro hydrin	60	-	jet fuel JP 3 (MIL-J-5624)	20	2
glycine - SOL 10%	40	-	jet fuel JP 4 (MIL-J-5624)	20	2
glycolic acid - SOL 37%	20	-	jet fuel JP 5 (MIL-J-5624)	20	2
			jet fuel JP 6 (MIL-J-25656)	20	2

The analysis has been carried out at room temperature, unless otherwise noted.

Coding: 1 = low or no attack
2 = medium attack
3 = strong attack

+ = no data available, **presumably applicable**
- = no data available, **presumably not applicable**
n.a. = no data available, **prediction is not possible**

SOL = aqueous solution (without declaration of concentration \Rightarrow saturated solution)

The results are related to laboratory analyses and may differ in practical application.

Name	T [°C]	Code	Name	T [°C]	Code
P					
palmitic acid	60	+	1-propanol	60	3
palm kernel fatty acid	60	+	2-propanol	60	3
paraffin	60	1	propionic acid - SOL	20	-
pectin	20	1	propylene glycol	60	-
pentachlorodiphenyl	20	-	1,2-propylene oxid	20	-
pentane	20	1	pyridine	20	3
perchloric acid	20	-	pyrrole	20	-
petroleum ether	40	1			
petroleum	60	1			
phenol	20	-			
phenyl ethyl ether	20	2			
phenyl benzene	20	3			
phenylhydrazine	20	-	R		
phenylhydrazine-chlorine hydrate - SOL	20	-	rape oil	20	2
phosgene	20	-	roaster gas, dry	60	-
phosphoric acid - SOL	20	-			
phosphorus oxychloride	20	-			
phosphorus trichloride	20	-			
phosphine	20	-			
phthalic - SOL	20	-	S		
picric acid - SOL	20	2	sagrotan	20	3
pine needle oil	60	1	salicylic acid	20	1
pinene	20	2	salt water	20	n.a.
piperidine	20	-	sea water	20	2
propane, liquid, gas	20	1	silicic acid	20	-
potassium acetate - SOL	20	2	silicone grease	60	1
potassium bisulfate - SOL	40	3	silicone oil	60	1
potassium bromate - SOL 10%	60	3	silver nitrate - SOL	60	n.a.
potassium bromide - SOL	60	2	soap - SOL	20	2
potassium carbonate - SOL	40	-	soda - SOL	20	-
potassium chlorate - SOL	60	3	sodium benzoate - SOL	40	+
potassium chloride - SOL	60	2	sodium bicarbonate - SOL	20	+
potassium chromate - SOL	20	3	sodium bisulfite - SOL	40	-
potassium cyanide	60	2	sodium chlorate - SOL	20	-
potassium dichromate - SOL 40%	20	-	sodium chloride - SOL	20	n.a.
potassium hydroxide	20	3	sodium cyanide - SOL	60	2
potassium iodide - SOL	60	2	sodium dichromate	20	+
potassium nitrate - SOL	60	3	sodium hydroxide (caustic soda)	20	3
potassium perchlorate - SOL	20	-	sodium hypochlorite - SOL	20	-
potassium permanganate - SOL	20	-	sodium carbonate	60	3
potassium persulfate - SOL	20	-	sodium nitrate - SOL	60	2
potassium sulfate - SOL	60	2	sodium nitrite - SOL	60	-
			sodium phosphate - SOL	60	2
			sodium silicate - SOL	60	+
			sodium sulfate - SOL	60	2
			sodium sulfide - SOL	40	+
			sodium thiosulfate - SOL	60	+
			soybean oil	60	1
			spindle oil	60	1
			starch - SOL	60	n.a.
			starch syrup	60	n.a.
			stearic acid	60	1

The analysis has been carried out at room temperature, unless otherwise noted.

Coding: **1 = low or no attack** **+** = no data available, **presumably applicable**
2 = medium attack **-** = no data available, **presumably not applicable**
3 = strong attack **n.a.** = no data available, **prediction is not possible**
SOL = aqueous solution (without declaration of concentration \Rightarrow saturated solution)

The results are related to laboratory analyses and may differ in practical application.

Name	T [°C]	Code	Name	T [°C]	Code
styrene	20	3	trimethylol propan	60	-
succinic acid - SOL	60	3	trinitrotoluene, TNT	20	n.a.
sugar beet syrup	20	1	trioctyl phosphate	60	-
sugar syrup	60	n.a.	triolic hexane	20	-
sulfuryl chloride	20	-	trisodium phosphate - SOL	60	n.a.
sulfur	60	+			
sulfur chloride	20	-			
sulfur dioxide	20	-			
sulfuric acid	20	3	U		
sulfurous acid	20	3	urea - SOL	60	n.a.
			V		
			vaseline	60	1
			vapor (water)	110	3
			vegetable oils	60	1
T			vinyl acetate	20	-
tallow	60	+	vinyl chloride	20	-
tannin	40	1			
tar	20	+			
tar oil	20	+			
tartaric acid - SOL	20	-	W		
tetrachloro ethane	60	3	waste water	60	+
tetrachloro ethene	60	3	water	60	2
tetrachloro ethylene	20	-	water	100	3
tetrachloro methane	60	3	wax aclohol	60	+
tetrahydrofuran	20	3	wine	20	1
tetrahydronaphthalene (tetralin)	20	-	white oil	20	-
thionyl chloride	20	-	white spirit	60	1
thiophene	60	-	whisky	20	2
tin (II) chloride	60	n.a.	wool grease	50	1
titanium tetrachloride	20	1			
toluene	20	3	X		
transformer oil	60	1	xylene	20	3
transmission fluid type A	20	1			
turpentine	20	2			
train oil	20	+			
triacetin	20	-	Y		
triethanolamine	20	-	yeast	20	+
triethylene glycol	20	+			
triethylaluminum	20	-			
tributoxy ethyl phosphate	20	-	Z		
tributyl phosphate	60	3	zeolite	20	+
trichloroethylene	20	3	zinc acetate - SOL	20	-
trichloroethyl phosphate	20	-	zinc chloride	20	3
trichloroacetic - SOL	20	-			
tritoyl phosphate	60	2			