

CHEMICAL RESISTANCE CHART

Reagent	ABS	Acetal	HDPE	LDPE	PC	PP	Santo-prene	Sili-cone	Reagent	ABS	Acetal	HDPE	LDPE	PC	PP	Santo-prene	Sili-cone
Acetaldehyde	D	A	C	C	C'	A ¹	—	A	Benzene	D	A ¹	D	D	D	D	D	D
Acetamide	—	A	A	A	D	A ¹	—	B	Benzene Sulfonic Acid	—	—	A	A ¹	D	D	—	D
Acetate Solvent	—	—	A	A	—	B ¹	—	C	Benzoic Acid	—	B	A	A ¹	B ¹	B ¹	—	B
Acetic Acid	D	D	A	A ²	B ¹	B	A	C	Benzol	D	A	—	C ¹	D	B	D	D
Acetic Acid 20%	C	C	A	A	A ¹	A	A	B	Benzonitrile	—	—	—	—	A ¹	—	—	A ¹
Acetic Acid 80%	D	D	A	D	B ¹	A	C	B	Benzyl Chloride	D	A	—	—	—	C ¹	—	D
Acetic Acid, Glacial/D	D	A	D	B ¹	A ¹	D	B	—	Bleach	B	D	—	—	—	D	—	—
Acetic Acid, Vapors	—	—	—	—	—	—	—	A	Bleaching Liquors	—	—	—	A ¹	—	—	—	B
Acetic Anhydride	C1	D	C	D	D	B ¹	D	C	Borax (Sodium Borate)	—	B	A	A ²	—	B	—	B
Acetone, 50% water	D	—	—	—	—	A	—	A ²	Boric Acid	—	A	A	A ²	—	A	A	A
Acetone	D	A	D	B ¹	D	A	A	D	Brewery Slop	—	B	—	—	—	—	—	—
Acetonitrile	D	—	A	A	D	A ¹	D	D	Bromine	D	D	D	D	C ¹	D	—	D
Acetophenone	—	—	C	D	D	C	—	—	Bromofom	—	—	D	D	D	D	—	—
Acetyl Bromide	—	—	—	D	—	—	—	—	Butadiene	—	A	D	D	D	C	—	D
Acetyl Chloride (dry)	D	D	—	D	D	D	A	C	Butane	B	A	—	C ¹	D	A ¹	—	D
Acetylene	—	A	—	D	D	A ¹	—	B	Butanol (Butyl Alcohol)	—	A	—	B ²	B ¹	A ¹	B	B
Acrylonitrile	D	—	A	A	D	A ¹	D	D	Butter	B	A	—	—	—	—	D	B
Adipic Acid	—	—	A	A	—	B ²	—	—	Buttermilk	B	A	—	A ¹	A ¹	A ¹	—	A
Alanine	—	—	A	A	A	A	—	—	Butyl Amine	—	C ¹	—	C ¹	D	B ¹	—	B ¹
Alcohols :									Butyl Ether	—	D	—	—	D	D	—	D
- Amyl	A ¹	A	A	B ²	B ¹	B ¹	A	D	Butyl Phthalate	—	—	A	C ¹	D	B ²	—	A ¹
- Benzyl	D	A	B	D	—	A	D	—	Butyl acetate	—	A	B	C ¹	D	B ¹	—	D
- Butyl	A ¹	A	—	A	A ²	A	B	B	Butylene	—	A	—	B ¹	D	D	—	D
- Diacetone	—	A	A	B ¹	—	B ²	—	D	Butyric Acid	D	A	D	D	D	B ¹	A	D
- Ethyl	B ¹	A ¹	A	B	B ²	A	A	B	Calcium Bisulfate	—	—	—	—	—	—	—	C
- Hexyl	—	A	—	A	—	—	—	B	Calcium Bisulfide	—	D	—	B ¹	A	—	—	C
- Isobutyl	B	A	A	A ²	—	A ¹	—	A	Calcium Bisulfite	—	D	A	A ¹	D	A	—	A
- Isopropyl	—	A	A	A ²	A ²	A ²	—	A	Calcium Bromide 38%	—	—	—	—	—	—	—	—
- Methyl	D	A	A	A ¹	B ¹	A ²	A	A	Calcium Carbonate	—	A	—	B ¹	C ²	A	—	A
- Octyl	A ¹	A	—	—	—	—	—	B	Calcium Chlorate	—	A	—	—	—	—	—	—
- Propyl	B ¹	A	—	A ²	—	A	A	A	Calcium Chloride (30% in water)	B	D	A	B ²	—	A ²	—	A
Allyl Chloride	D	—	A	—	—	A	—	—	Calcium Chloride (saturated)	A	D	A	—	—	A	—	A
Aluminium Acetate (satured)	—	—	—	—	—	A	—	D	Calcium Fluoride	—	—	—	—	—	—	—	—
Aluminium Chloride	A	—	A	B ²	A ¹	A	—	B	Calcium Hydroxide 10%	—	A	A	—	—	A	—	A
Aluminium Chloride 20%	—	C	A	B ²	A ¹	A	—	B	Calcium Hydroxide (saturated)	A	—	A	—	—	A	—	A
Aluminium Fluoride	A	C	A	A ²	—	A	—	B	Calcium Hydroxide	—	D	A	A ²	D	A ²	—	A
Aluminium Hydroxide	B	A	A	A ²	B ¹	A	—	—	Calcium Hypochlorite 30%	—	—	A	—	—	A	—	—
Aluminium Nitrate	—	B ¹	—	A ²	A ¹	A ²	—	B	Calcium Hypochlorite (saturated)	A	—	A	—	—	A	—	—
Aluminium Phosphate	—	—	—	—	—	—	—	A	Calcium Hypochlorite	—	D	A	A ¹	D	A ¹	—	B
Aluminium Potassium Sulfate 10%	—	C	A	A ²	A ¹	A	—	A	Calcium Nitrate	A	D	B	A ¹	A ²	A ²	—	B ¹
Aluminium Potassium Sulfate 100%	—	C	A	A ²	A ²	A	—	A	Calcium Oxide	D	A	—	B ¹	—	A	—	A
Aluminium Sulfate	A ²	B ¹	A	A ²	A	A	A	A	Calcium Sulfate	C	D	—	B ¹	A ²	A	—	—
Alums	—	—	—	A	—	A	—	A ¹	Calcium Sulfide	—	—	—	—	—	A	—	—
Amines	—	D	B	C ¹	—	B ²	—	B	Calgon	—	A	—	—	—	A	—	A
Ammonia 10%	—	D	A	C ¹	D	A ²	—	—	Cane Juice	—	A	—	—	—	C ¹	—	A
Ammonia Nitrate	—	C	—	A	—	A	—	—	Carbolic Acid (Phenol)	D	D	—	D	D	B	—	D
Ammonia, anhydrous	D	D	A	B ²	D	A	—	C	Carbon Bisulfide	—	A	—	—	—	D	—	—
Ammonia, liquid	—	D	A	C ¹	D	A ²	—	—	Carbon Dioxide (dry)	B	A	—	A ¹	—	A ²	—	B
Ammonium Acetate	—	—	A	A	—	A	—	—	Carbon Dioxide (wet)	B	A	—	A ¹	—	A ²	—	B
Ammonium Bifluoride	A ²	D	—	A ²	—	A	—	—	Carbon Disulfide	—	—	D	D	D	D	—	—
Ammonium Carbonate	A ²	D	B	B ²	—	A	—	C	Carbon Monoxide	—	A	—	A ²	—	A	—	A ²
Ammonium Caseinate	—	D	—	—	—	—	—	—	Carbon Tetrachloride	D	B ¹	C	D	D	D	—	D
Ammonium Chloride	A ²	B	A	A ²	A ²	A	—	C	Carbon Tetrachloride (dry)	D	—	C	D	—	D	—	D
Ammonium Fluoride 25%	—	—	A	—	—	A ⁴	—	—	Carbon Tetrachloride (wet)	D	A ¹	C	—	—	D	—	D
Ammonium Hydroxide	B	C	A	A ¹	D	A	—	A	Carbonated Water	—	A	—	A	—	B	—	—
Ammonium Glycolate	—	—	A	A	B	A	—	—	Carbolic Acid	—	B ¹	B	B ²	A ¹	A	—	A
Ammonium Nitrate	—	A ²	A	A ¹	—	A	—	—	Catsup	B	B	—	—	—	A	—	—
Ammonium Oxalate	—	B	A	—	A ¹	A	—	—	Cellulose Acetate	—	—	—	—	—	A	—	—
Ammonium Persulfate	A ²	D	A	A ²	—	A	—	D	Chloral Hydrate	A	—	D	—	—	D	—	—
Ammonium Phosphate, Dibasic	A ²	B ²	—	A ²	A ²	A	—	A	Chloric Acid	—	D	—	—	—	—	—	—
Ammonium Phosphate, Monobasic	—	B	—	A	—	A	—	A	Chlorinated Glue	—	D	—	—	—	—	—	—
Ammonium Phosphate, Tribasic	—	B	—	C	—	A	—	A	Chlorine Water	—	D	C	B ¹	—	D	—	D
Ammonium Sulfate	A ²	B ¹	A	A ¹	A ²	A	—	A	Chlorine Anhydrous Liquid	—	A ¹	C	D	C	D	—	D
Ammonium Sulfite	—	D	B	B ²	—	A	—	—	Chlorine (dry)	—	D	B	D	—	D	—	D
Ammonium Thiosulfate	—	B	—	A	—	—	—	—	Chloroacetic Acid	—	D	A	D	D	C ¹	D	D
Amyl Acetate	D	B ¹	—	C ¹	D	B ¹	D	D	Chlorobenzene (Mono)	D	D	D	C ¹	D	C ¹	D	D
Amyl Alcohol	A ¹	A	A	B ²	B ¹	B ¹	A	D	Chlorobromomethane	—	—	—	A	—	A	—	D
Amyl Chloride	D	A	B	D	—	D	—	D	Chloroform	D	A	D	C ¹	D	C ¹	D	D
Aniline	D	A ¹	B	C	D	A ¹	D	B	Chlorosulfonic Acid	—	D	D	D	C ¹	D	—	D
Aniline Chlorohydrate	—	—	—	—	—	—	—	—	Chocolate Syrup	—	A	—	—	—	A ²	—	—
Aniline Hydrochloride	D	—	—	D	D	D	—	D	Chromic Acid 5%	B	D	A	A	B	D	D	C
Antifreeze	B	D	—	—	—	D	—	C	Chromic Acid 10%	B	D	A	A	B	D	D	C
Antimony Trichloride	A ²	—	B	B ²	A ²	A	A	—	Chromic Acid 30%	B	D	A	A	C	D	D	C
Aqua Regia (80% HCl, 20% HNO ₃)	D	D	D	B ¹	D	B ¹	D	D	Chromic Acid 50%	D	D	A	A	D	D	D	C
Arochlor 1248	—	—	—	C ¹	—	D	—	B	Chromium Salts	—	—	—	B	—	—	—	—
Aromatic Hydrocarbons	—	A	—	C	—	D	—	D	Cider	—	A	—	B	A	A	—	B ¹
Arsenic Acid	A ²	D	B	B ²	A ¹	A	B	A	Citric Acid	D	B ¹	A	D	A ¹	A	A	A
Arsenic Salts	—	—	—	B	—	—	—	—	Citric Oils	—	B	B	—	—	A	—	—
Asphalt	—	B ²	—	A ¹	D	B ¹	—	D	Coffee	—	A	—	—	—	A	—	A
Barium Carbonate	A ²	A	—	B ²	A ²	A	—	A	Copper Chloride	A	A	—	—	—	A	—	A ¹
Barium Chloride	A ²	A	B	A ¹	A	A	—	A	Copper Cyanide	—	A	—	B ²	D	A	—	A
Barium Cyanide	—	D	—	B	—	D	—	—	Copper Fluoborate	—	B	—	—	—	—	—	—
Barium Hydroxide	A ²	D	—	B ²	D	B	—	A	Copper Nitrate	—	A	—	B ²	D	A	—	—
Barium Nitrate	—	B ²	—	B ²	D	A	—	B	Copper Sulfate 5%	—	D	A	A ²	A ²	A	—	A
Barium Sulfate	A ²	B ²	B	B ²	D	B ¹	—	A	Copper Sulfate >5%	—	D	A	A ²	A ¹	A	—	A
Barium Sulfide	A ²	A	A	B ²	—	B	—	A	Cream	—	A	—	—	—	A	—	—
Beer	A ²	A ¹	A	A ²	A ²	A ¹	—	A	Creosote	A	D	A	—	—	—	—	D
Beet Sugar Liquids	B	B	—	A ¹	—	A ¹	—	A	Cresols	D	D	D	C ¹	D	D	D	D
Benzaldehyde	B	A	B	A ¹	D	D	D	D									
Benzenamine	—	—	B	A	D	A	—	—									

A- No effect
B- Minor effect
C- Moderate effect

D- Severe effect;
not recommended
— No data available

Explanation of footnotes:

- 1- Satisfactory to 72 °F (22 °C)
- 2- Satisfactory to 120 °F (48 °C)
- 3- Satisfactory to 90 °F (32 °C)
- 4- Satisfactory to 200 °F (93 °C)