

CHEMICAL RESISTANCE OF BELZONA® 1111

FN 10132



	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	Other
Inorganic Acids	Carbonic acid	H ₂ CO ₃ (463-79-6)	-	Ex	-
	Fluorosilicic acid	H ₂ SiF ₆ (16961-83-4)	-	M	-
	Hydrobromic acid	HBr (10035-10-6)	10%	Ex	-
	Hydrochloric acid	HCl (7647-01-0)	35%	M	-
			20%	G	-
			10%	Ex	-
	Nitric acid	HNO ₃ (7697-37-2)	50%	P	-
			20%	G	-
			10%	G	-
Nitrous acid	HNO ₂ (7782-77-6)	20%	Ex	-	
Oleum		-	P	-	
Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	20%	G	-	
		10%	G	-	
		5%	Ex	-	
Sulfuric acid	H ₂ SO ₄ (7664-93-9)	98%	P	-	
		50%	M	-	
		20%	G	-	
		10%	Ex	-	
Organic Acids	Acetic acid (ethanoic acid)	CH ₃ COOH (64-19-7)	50%	P	-
			20%	M	-
			10%	M	-
	Chloroacetic acid	ClCH ₂ COOH (79-11-8)	-	M	-
	Chlorosulfonic acid (sulfurochloridic acid)	HSO ₃ Cl (7790-94-5)	-	M	-
	Citric acid	C ₆ H ₈ O ₇ (77-92-9)	-	G	-
	Cresylic acid (cresol)	C ₇ H ₈ O (1319-77-3)	-	P	-
	Formic acid (methanoic acid)	HCOOH (64-18-6)	20%	M	-
10%			M	-	
Lactic acid (2-hydroxypropanoic acid)	CH ₃ CH(OH)(COOH) (50-21-5/79-33-4/10326-41-7)	10%	G	-	
Phenol	C ₆ H ₅ OH (108-95-2)	80%	P	-	
Alcohols	n-Butanol (butyl alcohol)	C ₄ H ₉ OH (71-36-3)	-	Ex	-
	Ethanol (ethyl alcohol)	CH ₃ CH ₂ OH (64-17-5)	-	G	-
	Ethylene glycol (ethan-1,2-diol, monoethylene glycol, MEG)	(CH ₂ OH) ₂ (107-21-1)	-	Ex	-
	Glycerol (glycerine, propane-1,2,3-triol)	HOCH ₂ CH(OH)CH ₂ OH (56-81-5)	-	Ex	-
	Higher alcohols	C _n H _(2n+1) OH where n > 2	-	Ex	-

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Alcohols continued	Methanol (methyl alcohol)	CH ₃ OH (67-56-1)	-	G	-
	2-Methoxyethanol	C ₃ H ₈ O ₂ (109-86-4)	-	Ex	-
	Propan-1-ol (Propyl alcohol)	CH ₃ CH ₂ CH ₂ OH (71-23-8)	-	Ex	-
	Propylene glycol (1,2-Propanediol)	CH ₃ CH(OH)CH ₂ OH (57-55-6)	-	Ex	-
	Secondary alcohols	R ₁ R ₂ CHOH	-	Ex	-
	Tertiary alcohols	R ₁ R ₂ R ₃ COH	-	Ex	-
Alkalis	Ammonia	NH ₃ (7664-41-7)	30%	G	-
			20%	Ex	-
			10%	Ex	-
	Barium hydroxide	Ba(OH) ₂ (17194-00-2)	-	Ex	-
	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	-	Ex	-
	Magnesium hydroxide (milk of magnesia)	Mg(OH) ₂ (1309-42-8)	-	Ex	-
Potassium hydroxide (caustic potash)	KOH (1310-58-3)	40%	G	-	
		20%	Ex	-	
		10%	Ex	-	
Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	50%	Ex	-	
		40%	Ex	-	
		20%	Ex	-	
			10%	Ex	-
Amines & Amides	Aniline (Phenylamine)	C ₆ H ₅ NH ₂ (62-53-3)	-	M	-
	Diethanolamine	HN(CH ₂ CH ₂ OH) ₂ (111-42-2)	-	Ex	-
	Diethylamine	CH ₃ CH ₂ NHCH ₂ CH ₃ (109-89-7)	-	P	-
	Dimethylformamide	(CH ₃) ₂ NC(O)H (68-12-2)	-	P	-
	Methylamine (25% in water)	CH ₃ NH ₂ (74-89-5)	-	Ex	-
	Pyridine	C ₅ H ₅ N (110-86-1)	-	P	-
	Triethanolamine (TEA) (2,2',2''-nitrilotriethanol)	N(CH ₂ CH ₂ OH) ₃ (102-71-6)	-	Ex	-
Beverages & Foodstuffs	Beer		-	Ex	-
	Cider		-	Ex	-
	Citrus juices		-	Ex	-
	Fermentation liquor		-	Ex	-
	Glucose		-	Ex	-
	Milk		-	G	-
	Sugar solution		-	Ex	-
	Vinegar		-	G	-
Whisky and Wine		-	M	-	

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Esters & Ethers	Amyl acetate	CH ₃ COO(CH ₂) ₄ CH ₃ (628-63-7)	-	Ex	-
	Butyl acetate	C ₆ H ₁₂ O ₂ (123-86-4)	-	Ex	-
	Dibutyl adipate	[CH ₂ CH ₂ CO ₂ (CH ₂) ₃ CH ₃] ₂ (105-99-7)	-	Ex	-
	Dibutyl phthalate	C ₁₆ H ₂₂ O ₄ (84-74-2)	-	Ex	-
	Dibutyl sebacate	C ₁₈ H ₃₄ O ₄ (109-43-3)	-	Ex	-
	Diethyl adipate	C ₂₂ H ₄₂ O ₄ (123-79-5)	-	Ex	-
	Diethyl phthalate	C ₆ H ₄ (C ₈ H ₁₇ COO) ₂ (117-81-7)	-	Ex	-
	Diethyl sebacate	(CH ₂) ₈ (COOC ₈ H ₁₇) ₂	-	Ex	-
	Diethyl ether	(C ₂ H ₅) ₂ O (60-29-7)	-	Ex	-
	Diphenyl isodecyl phosphate	C ₂₂ H ₃₁ O ₄ P (29761-21-5)	-	Ex	-
	Ethyl acetate	CH ₃ COOCH ₂ CH ₃ (141-78-6)	-	Ex	-
	Isopropyl ether	C ₆ H ₁₄ O (108-20-3)	-	Ex	-
	Methyl acetate	CH ₃ COOCH ₃ (79-20-9)	-	Ex	-
Gases	Carbon dioxide (dry)	CO ₂ (124-38-9)	-	Ex	-
	Carbon monoxide	CO (630-08-0)	-	Ex	-
	Chlorine (dry)	Cl ₂ (7782-50-5)	-	Ex	-
	Hydrogen	H ₂ (1333-74-0)	-	Ex	-
	Natural Gas (Methane)	CH ₄	-	Ex	-
	Nitrogen	N ₂ (7727-37-9)	-	Ex	-
	Nitrous oxide (dinitrogen monoxide)	N ₂ O (10024-97-2)	-	Ex	-
	Ozone (dry)	O ₃ (10028-15-6)	-	Ex	-
	Ozone (aqueous solution)		-	M	-
	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex	-
	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	-

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Halocarbons	Carbon tetrachloride	CCl ₄ (56-23-5)	-	G	-
	Chlorobenzene	C ₆ H ₅ Cl (108-90-7)	-	G	-
	Chloroform	CHCl ₃ (67-66-3)	-	G	-
	Dry cleaning fluids		-	G	-
	Methylene chloride (dichloromethane)	CH ₂ Cl ₂ (75-09-2)	-	P	-
	Perchloroethylene (tetrachloroethylene)	Cl ₂ C=CCl ₂ (127-18-4)	-	G	-
	1,1,1, - Trichloroethane (methyl chloroform)	CH ₃ CCl ₃ (71-55-6)	-	G	-
Hydrocarbons	Aviation fuel (AVCAT, AVGAS, AVTAG, AVTUR)	N/A	-	Ex	-
	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	Ex	-
	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	Ex	-
	Gasoline – Ethanol free (Petrol)		-	Ex	-
	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	Ex	-
	Hexane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-54-3)	-	Ex	-
	Iso-octane (2,2,4-trimethylpentane)	(CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (540-84-1)	-	Ex	-
	Kerosene	N/A (8008-20-6)	-	Ex	-
	Paraffin	N/A (8002-74-2)	-	Ex	-
	Pentane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₃ (109-66-0)	-	Ex	-
	Styrene	C ₆ H ₅ CH=CH ₂ (100-42-5)	-	Ex	-
	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	Ex	-
	White Spirit (Stoddard solvent, Mineral spirits)	(8052-41-3)	-	Ex	-
	Xylene (dimethyl benzene, xylo)	C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	Ex	-
Ketones	Acetone	(CH ₃) ₂ CO (67-64-1)	-	M	-
	Methyl ethyl ketone (MEK, butanone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	M	-
Miscellaneous	Brake fluid		-	Ex	-
	Drilling mud		-	Ex	-
	Emulsion paint		-	Ex	-
	Fertilizer solutions		-	Ex	-
	Grease		-	Ex	-
	Ink (water based)		-	Ex	-

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Miscellaneous continued	Mercury	Hg	-	Ex	-
	Mine waters (acid)		-	Ex	-
	Oil/water mixtures		-	Ex	-
	Water, distilled		-	Ex	-
	Water, fresh		-	Ex	-
	Water, sea		-	Ex	-
Oils - Mineral	Bunker oils (fuel oils)		-	Ex	-
	Crude oil		-	Ex	-
	Cutting oils, water emulsions		-	Ex	-
	Diesel oil		-	Ex	-
	Lubricating oil		-	Ex	-
Oils - Vegetable/ Animal	Transformer oil		-	Ex	-
	Castor oil		-	Ex	-
	Coconut oil		-	Ex	-
	Cod liver oil		-	Ex	-
	Corn oil		-	Ex	-
	Linseed oil		-	Ex	-
Salts	Olive oil		-	Ex	-
	Aluminium chloride (dry)	AlCl ₃ (7446-70-0)	-	Ex	-
	Aluminium sulphate	Al ₂ (SO ₄) ₃ (10043-01-3)	-	Ex	-
	Alums		-	Ex	-
	Ammonium bicarbonate	(NH ₄)HCO ₃ (1066-33-7)	-	Ex	-
	Ammonium carbonate	(NH ₄) ₂ CO ₃ (506-87-6)	-	Ex	-
	Ammonium chloride	NH ₄ Cl (12125-02-9)	-	Ex	-
	Ammonium monophosphate	NH ₄ H ₂ PO ₄ (7722-76-1)	-	Ex	-
	Ammonium phosphate (dibasic)	(NH ₄) ₂ HPO ₄ (7783-28-0)	-	Ex	-
	Ammonium phosphate (tribasic)	(NH ₄) ₃ PO ₄ (10361-65-6)	-	Ex	-
	Ammonium nitrate	NH ₄ NO ₃ (6484-52-2)	-	Ex	-
	Ammonium sulfate	(NH ₄) ₂ SO ₄ (7783-20-2)	-	Ex	-
	Antimony trichloride	SbCl ₃ (10025-91-9)	-	Ex	-
	Barium carbonate	BaCO ₃ (513-77-9)	-	Ex	-
	Barium chloride	BaCl ₂ (10361-37-2)	-	Ex	-
	Barium sulfate	BaSO ₄ (7727-43-7)	-	Ex	-
	Brines		-	Ex	-
	Calcium bisulfite	Ca(HSO ₃) ₂ (13780-03-5)	-	Ex	-
Calcium carbonate	CaCO ₃ (471-34-1)	-	Ex	-	

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Salts continued	Calcium chloride		-	Ex	-
	Calcium hypochlorite	Ca(ClO) ₂ (7778-54-3)	-	Ex	-
	Calcium sulphate	CaSO ₄ (7778-18-9)	-	Ex	-
	Chrome alum	KCr(SO ₄) ₂ (10141-00-1)	-	Ex	-
	Copper acetate	Cu(CH ₃ COO) ₂ (142-71-2)	-	Ex	-
	Copper chloride	CuCl ₂ (7447-39-4)	-	Ex	-
	Copper nitrate	Cu(NO ₃) ₂ (3251-23-8)	-	Ex	-
	Copper sulphate	CuSO ₄ (7758-98-7)	-	Ex	-
	Ferric chloride (dry)	FeCl ₃ (7705-08-0)	-	Ex	-
	Ferric nitrate	Fe(NO ₃) ₃ (10421-48-4)	-	Ex	-
	Ferric sulfate	Fe ₂ (SO ₄) ₃ (10028-22-5)	-	Ex	-
	Ferrous chloride	FeCl ₂ (7758-94-3)	-	Ex	-
	Ferrous sulfate	FeSO ₄ (7720-78-7)	-	Ex	-
	Lead acetate	Pb(CH ₃ COO) ₂ (301-04-2)	-	Ex	-
	Magnesium bisulfate	Mg(HSO ₄) ₂ (10028-26-9)	-	Ex	-
	Magnesium chloride	MgCl ₂ (7786-30-3)	-	Ex	-
	Magnesium sulphate (Epsom salt)	MgSO ₄ (7487-88-9)	-	Ex	-
	Mercuric chloride	HgCl ₂ (7487-94-7)	-	Ex	-
	Mercuric cyanide	Hg(CN) ₂ (592-04-1)	-	Ex	-
	Nickel ammonium sulfate	(NH ₄) ₂ Ni(SO ₄) ₂ (7785-20-8)	-	Ex	-
	Nickel chloride	NiCl ₂ (7718-54-9)	-	Ex	-
	Nickel nitrate	Ni(NO ₃) ₂ (13138-45-9)	-	Ex	-
	Nickel sulfate	NiSO ₄ (7786-81-4)	-	Ex	-
Potassium aluminium sulphate (potash alum)	KAl(SO ₄) ₂ (10043-67-1)	-	Ex	-	
Potassium bisulfite	KHSO ₃ (7773-03-7)	-	Ex	-	
Potassium bromide	KBr (7758-02-3)	-	Ex	-	
Potassium carbonate	K ₂ CO ₃ (584-08-7)	-	Ex	-	

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Salts continued	Potassium chlorate	KClO ₃ (3811-04-9)	-	Ex	-
	Potassium chloride	KCl (7447-40-7)	-	Ex	-
	Potassium cyanide	KCN (151-50-8)	-	Ex	-
	Potassium dichromate	K ₂ Cr ₂ O ₇ (7778-50-9)	-	Ex	-
	Potassium diphosphate	K ₂ HPO ₄ (7758-11-4)	-	Ex	-
	Potassium ferricyanide	K ₃ [Fe(CN) ₆] (13746-66-2)	-	Ex	-
	Potassium ferrocyanide	K ₄ [Fe(CN) ₆] (13943-58-3)	-	Ex	-
	Potassium iodide	KI (7681-11-0)	-	Ex	-
	Potassium nitrate	KNO ₃ (7757-79-1)	-	Ex	-
	Potassium permanganate	KMnO ₄ (7722-64-7)	-	Ex	-
	Potassium sulfate	K ₂ SO ₄ (7778-80-5)	-	Ex	-
	Potassium sulfide	K ₂ S (1059-82-5)	-	Ex	-
	Potassium sulphite	K ₂ SO ₃ (10117-38-1)	-	Ex	-
	Silver nitrate	AgNO ₃ (7761-88-8)	-	Ex	-
	Sodium acetate	CH ₃ COONa (127-09-3)	-	Ex	-
	Sodium aluminate	NaAlO ₂ (1302-42-7)	-	Ex	-
	Sodium bicarbonate	NaHCO ₃ (144-55-8)	-	Ex	-
	Sodium bisulfate	NaHSO ₄ (7681-38-1)	-	Ex	-
	Sodium bisulfite	NaHSO ₃ (7631-90-5)	-	Ex	-
	Sodium borate (borax)	Na ₂ B ₄ O ₇ (1303-96-4)	-	Ex	-
	Sodium bromide	NaBr (7647-15-6)	-	Ex	-
	Sodium carbonate (soda ash)	Na ₂ CO ₃ (497-19-8)	-	Ex	-
	Sodium chlorate	NaClO ₃ (7775-09-9)	-	Ex	-
	Sodium chloride	NaCl (7647-14-5)	-	Ex	-
Sodium chromate	Na ₂ CrO ₄ (7775-11-3)	-	Ex	-	
Sodium cyanide	NaCN (143-33-9)	-	Ex	-	
Sodium fluoride	NaF (7681-49-4)	-	Ex	-	

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Salts continued	Sodium hypochlorite (bleach)	NaClO (7681-52-9)	12%	G	-
	Sodium metaphosphate	(NaPO ₃) ₆ (10124-56-8)	-	Ex	-
	Sodium metasilicate (sodium silicate)	Na ₂ SiO ₃ (6834-92-0)	-	Ex	-
	Sodium nitrate	NaNO ₃ (7631-99-4)	-	Ex	-
	Sodium phosphate (dibasic)	Na ₂ HPO ₄ (7558-79-4)	-	Ex	-
	Sodium phosphate (tribasic)	Na ₃ PO ₄ (7601-54-9)	-	Ex	-
	Sodium sulfate	Na ₂ SO ₄ (7757-82-6)	-	Ex	-
	Sodium sulfide	Na ₂ S (1313-82-2)	-	Ex	-
	Stannous chloride (tin chloride)	SnCl ₂ (7772-99-8)	-	Ex	-
	Zinc chloride	ZnCl ₂ (7646-85-7)	-	Ex	-
	Zinc hydrosulfite	ZnS ₂ O ₄ (7779-86-4)	-	Ex	-
Zinc sulfate	ZnSO ₄ (7733-02-0)	-	Ex	-	

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