

CHEMICAL RESISTANCE OF BELZONA® 4341

FN 10086

	Chemical name (Synonym)	Chemical formula (CAS number)	Concentration	20 °C 68 °F	60°C 140°F	90°C 194°F	Other
Inorganic Acids	Carbonic acid	H ₂ CO ₃ (463-79-6)	-	Ex			-
	Chromic acid	H ₂ CrO ₄ (7738-94-5)	40%	M			-
			10%	Ex			-
	Fluorosilicic acid	H ₂ SiF ₆ (16961-83-4)	10%	Ex			-
	Hydrobromic acid	HBr (10035-10-6)	40%	Ex			-
			10%	Ex			-
	Hydrochloric acid	HCl (7647-01-0)	36%	Ex	Ex	G	-
			25%			G	-
			15%			Ex	-
			10%	Ex			-
			5%		Ex	M	-
	Nitric acid	HNO ₃ (7697-37-2)	60%	P			-
			50%	M			-
			40%	G			-
			30%	Ex	P		-
			15%		M		-
			10%	Ex			-
			5%		Ex	P	-
	Nitrous acid	HNO ₂ (7782-77-6)	20%	Ex			-
	Oleum		65%	P			-
	Perchloric acid	HClO ₄ (7601-90-3)	60%	M			-
	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄ (7664-38-2)	85%	Ex		P	-
			40%		Ex		-
			30%	Ex			-
			25%		Ex	M	-
			15%		Ex		-
			10%	Ex			-
	Sulfuric acid	H ₂ SO ₄ (7664-93-9)	100%	P			-
			98%	Ex	Ex	P	-
			75%		Ex	Ex	-
			55%		Ex	Ex	-
			50%	Ex			-
			45%			Ex	-
			35%			Ex	-
			25%			Ex	-
			20%	Ex			-
			15%		Ex	Ex	-
			10%	Ex			-
			5%		Ex	G	-

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Organic Acids	Acetic acid (ethanoic acid)	CH ₃ COOH (64-19-7)	50%	P			-
			25%		P	P	-
			20%	M			-
			15%		M	P	-
			10%	M			-
			5%		M	M	-
			1%	M*	M	M	-
			0.1%	M*	M	M	-
	Acrylic acid	CH ₂ =CHCO ₂ H (79-10-7)	-	G			-
	Citric acid	C ₆ H ₈ O ₇ (77-92-9)	-	Ex			-
Alkalis	Cresylic acid (cresol)	C ₇ H ₈ O (1319-77-3)	-	P			-
	Formic acid (methanoic acid)	HCOOH (64-18-6)	20%	M			-
	Lactic acid (2-hydroxypropanoic acid)	CH ₃ CH(OH)(COOH) (50-21-5/79-33-4/10326-41-7)	85%	P			-
			10%	M			-
	Stearic acid (solid)	CH ₃ (CH ₂) ₁₆ CO ₂ H (57-11-4)	-	Ex			-
	Tannic acid	C ₇₆ H ₅₂ O ₄₆ (1401-55-4)	-	Ex			-
	Tartaric acid	HO ₂ CCH(OH)CH(OH)CO ₂ H (526-83-0)	-	Ex			-
	Ammonia	NH ₃ (7664-41-7)	30%	Ex			-
			10%	Ex			-
	Calcium hydroxide (lime water)	Ca(OH) ₂ (1305-62-0)	-	G			-
Gases	Potassium hydroxide (caustic potash)	KOH (1310-58-3)	20%	P			-
			10%	M			-
	Sodium hydroxide (caustic soda)	NaOH (1310-73-2)	40%	P		Ex	-
			15%			M	-
			10%	M			-
	Butane	C ₄ H ₁₀ (106-97-8)	-	Ex	-		
	Carbon dioxide	CO ₂ (124-38-9)	-	Ex			
	Carbon monoxide	CO (630-08-0)	-	Ex	-		
	Chlorine gas	Cl	-	G	-		
	Hydrogen gas	H	-	Ex	-		
	Hydrogen sulphide	H ₂ S (7783-06-4)	-	Ex	-		

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Gases continued	Natural Gas (Methane)	CH ₄	-	Ex	-		
	Nitrous oxide (dinitrogen monoxide)	N ₂ O (10024-97-2)	-	Ex	-		
	Sulphur dioxide	SO ₂ (7446-09-5)	-	Ex	-		
	Sulphur trioxide (sulphuric anhydride)	SO ₃ (7446-11-9)	-	Ex	-		
Halocarbons	Carbon tetrachloride	CCl ₄ (56-23-5)	-	M	-		
	Chlorobenzene	C ₆ H ₅ Cl (108-90-7)	-	M	-		
	Chloroform	CHCl ₃ (67-66-3)	-	M	-		
	Ethylene dichloride (1,2-dichloroethane)	C ₂ H ₄ Cl ₂ (107-06-2)	-	M	-		
	Methylene chloride (dichloromethane)	CH ₂ Cl ₂ (75-09-2)	-	M	-		
	Perchloroethylene (tetrachloroethylene)	Cl ₂ C=CCl ₂ (127-18-4)	-	M	-		
	1,1,1, - Trichloroethane (methyl chloroform)	CH ₃ CCl ₃ (71-55-6)	-	M	-		
	Trichlorotrifluoroethane (CFC-113)	Cl ₂ FC-CClF ₂ (76-13-1)	-	M	-		
Hydrocarbons	Benzene (benzol)	C ₆ H ₆ (71-43-2)	-	M	-		
	Cyclohexane	C ₆ H ₁₂ (110-82-7)	-	M	-		
	Ethane	C ₂ H ₆ (74-84-0)	-	M	-		
	Gasoline – Ethanol free (Petrol)		-	M	-		
	Heptane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (142-82-7)	-	M	-		
	Hexane	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ (110-54-3)	-	M	-		
	Iso-octane (2,2,4-trimethylpentane)	(CH ₃) ₃ CCH ₂ CH(CH ₃) ₂ (540-84-1)	-	M	-		
	Kerosene	N/A (8008-20-6)	-	M	-		
	Naphtha		-	M	-		
	Paraffin	N/A (8002-74-2)	-	M	-		
	Petroleum naphtha		-	M	-		
	Styrene	C ₆ H ₅ CH=CH ₂ (100-42-5)	-	M	-		

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Hydrocarbons continued	Toluene (methylbenzene, phenylmethane, toluol)	C ₆ H ₅ CH ₃ (108-88-3)	-	M	-
	Turpentine	N/A (8006-64-2)	-	M	-
	White Spirit (Stoddard solvent, Mineral spirits)	N/A (8052-41-3)	-	M	-
	Xylene (dimethyl benzene, xylol)	C ₆ H ₄ (CH ₃) ₂ (95-47-6/108-38-3/106-42-3/1330-20-7)	-	M	-
Ketones	Acetone	(CH ₃) ₂ CO (67-64-1)	-	M	-
	Formaldehyde	HCHO (50-00-0)	37%	M	-
	Methyl amyl ketone (2-Heptanone)	C ₇ H ₁₄ O (110-43-0)	-	M	-
	Methyl ethyl ketone (MEK, butanone)	CH ₃ C(O)CH ₂ CH ₃ (78-93-3)	-	M	-
Miscellaneous	Brake fluid		-	Ex	-
	Bromine water (saturated)		-	Ex	-
	Carbon disulphide	CS ₂ (75-15-0)	-	M	-
	Dimethyl sulfoxide	(CH ₃) ₂ SO (67-68-5)	-	M	-
	Emulsion paint		-	Ex	-
	Ethylethoxypropionate	C ₇ H ₁₄ O ₃ (763-69-9)	-	Ex	-
	Fertilizer solutions		-	Ex	-
	Grease		-	Ex	-
	Ink (water based)		-	Ex	-
	Isothiazolinone	C ₃ H ₃ NOS (1003-07-2)	-	Ex	-
	Mesitylene (1,3,5-trimethylbenzene)	C ₆ H ₃ (CH ₃) ₃ (108-67-8)	-	Ex	-
	N-Methylpyrrolidone	C ₅ H ₉ NO (872-50-4)	60°C	M	-
			20°C	Ex	-
	Naphthalene	C ₁₀ H ₈ (91-20-3)	-	Ex	-
	Pyrrole	C ₄ H ₄ NH (109-97-7)	-	M	-
	Resins & rosins (natural)		-	Ex	-
	Roof pitch		-	Ex	-
	Rubber latex emulsions		-	Ex	-
	Sewage		-	Ex	-
	Skydrol		-	Ex	-
	Sodium Hypochlorite		12%	M	-
	Starch		-	Ex	-
	Tar		-	Ex	-

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Miscellaneous continued	Tetraethyl lead	(CH ₃ CH ₂) ₄ Pb (78-00-2)	-	Ex	-
	Tetrahydrofuran	(CH ₂) ₄ O (109-99-9)	-	M	-
	Urea	CO(NH ₂) ₂ (57-13-6)	-	Ex	-
	Water, distilled		-	Ex	-
	Water, fresh		-	Ex	-
	Water, sea		-	Ex	-
Oils - Mineral	Castor oil		-	Ex	-
	Coconut oil		-	Ex	-
	Cod liver oil		-	Ex	-
	Corn oil		-	Ex	-
	Diesel oil		-	Ex	-
	Hydraulic oil		-	Ex	-
	Lubricating oil		-	Ex	-
	Oil, petroleum		-	Ex	-
	Oil/water mixtures		-	Ex	-
	Silicone oil		-	Ex	-
	Soybean oil		-	Ex	-
	Transfer oil		-	Ex	-
	Tung oil		-	Ex	-
Salts	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 fluorosilicate	(NH ₄) ₂ SiF ₆ (16919-19-0)	-	Ex	-
	Ammonium nitrate	NH ₄ NO ₃ (6484-52-2)	-	Ex	-
	Ammonium phosphate	(NH ₄) ₃ PO ₄ (10361-65-6)	-	Ex	-
	Ammonium sulfate	(NH ₄) ₂ SO ₄ (7783-20-2)	-	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	-
	Barium sulphide	BaS (21109-95-5)	-	Ex	-
	Brines		-	Ex	-
	Bromine chloride	BrCl (13863-41-7)	-	Ex	-

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Salts continued	Calcium carbonate	CaCO ₃ (471-34-1)	-	Ex	-
	Calcium chloride	CaCl ₂ (10043-52-4)	-	Ex	-
	Calcium fluoride	CaF ₂ (7789-75-5)	-	Ex	-
	Calcium hypochlorite	Ca(ClO) ₂ (7778-54-3)	-	Ex	-
	Calcium sulphate	CaSO ₄ (7778-18-9)	-	Ex	-
	Chromium potassium sulphate (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	-
	Magnesium bisulfate	Mg(HSO ₄) ₂ (10028-26-9)	-	Ex	-
	Magnesium carbonate	MgCO ₃ (546-93-0)	-	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 sulphate	NiSO ₄ (7786-81-4)	-	Ex	-
	Potassium bisulfite	KHSO ₃ (7773-03-7)	-	Ex	-
	Potassium bromide	KBr (7758-02-3)	-	Ex	-

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Salts continued	Potassium carbonate	K ₂ CO ₃ (584-08-7)	-	Ex	-
	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)	-	M	-
	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	-
	Quaternary ammonium salts		-	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	-

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Salts continued	Sodium chromate	Na ₂ CrO ₄ (7775-11-3)	-	Ex	-
	Sodium cyanide	NaCN (143-33-9)	-	Ex	-
	Sodium fluoride	NaF (7681-49-4)	-	Ex	-
	Sodium fluorosilicate	Na ₂ SiF ₆ (16893-85-9)	-	Ex	-
	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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