

Chemical Compounds and Terms Frequently Encountered In The Process Of Water Treatment

Chemical Name	Chemical Symbol	Common Name	Used For
Aluminum Sulfate	$Al_2(SO_4)_3$	Alum; Papermakers Alum, Filter Alum	Coagulation
Ammonia	NH_3	Ammonia Gas	Disinfection (when combined with chlorine to form chloramines NH_2Cl)
Calcium Bicarbonate	$Ca(HCO_3)_2$		
Calcium Carbonate	$CaCO_3$	Calcite; Limestone; Whiting; Crushed Georgia Marble; Chalk	Neutralization
Calcium Chloride	$CaCl_2$	"Ice Melting" Salt	
Calcium Hydroxide	$Ca(OH)_2$	Hydrated Lime; Slaked Lime	Stabilization
Calcium Hypochlorite	$Ca(OCl)_2$	H.T.H.	Disinfection
Calcium Oxide	CaO	Chemical Lime; Quicklime; Burnt Lime	Lime Softening
Calcium Sulfate	$CaSO_4$	Gypsum; Land Plaster; Plaster of Paris	Adsorption
Carbon	C	Activated Carbon	Adsorption
Carbon Dioxide	CO_2		Stabilization
Chlorine	Cl_2	Chlorine Gas	Disinfection
Chlorine Dioxide	ClO_2		Disinfection
Copper Sulfate (cupric)	$CuSO_4$	Blue Stone; Blue Vitriol	Biocide
Ferric Chloride	$FeCl_3$		Coagulation
Ferric Hydroxide	$Fe(OH)_3$		
Ferrous Bicarbonate	$Fe(HCO_3)_2$	Dissolved Iron	
Ferrous Sulfate	$FeSO_4$	Copperas; Green Vitriol	Coagulation
Fluosilicic Acid	H_2SiF_6	Hydrofluosilicic Acid	Fluoridation
Hydrochloric Acid	HCl	Muriatic Acid	DI Cation Regenerant
Hypochlorous Acid	HOCl		Disinfection
Magnesium Carbonate	$MgCO_3$	Magnesite	
Magnesium Chloride	$MgCl_2$		
Magnesium Hydroxide	$Mg(OH)_2$	Milk of Magnesia	
Magnesium Sulfate	$MgSO_4$	Epson Salts	

Nitric Acid	HNO ₃	Aqua Fortis	
Potassium Chloride	KCl	Table Salt Substitute; Muriate of Potash	Softener Regenerant
Potassium Hydroxide	KOH	Caustic Potash	
Potassium Nitrate	KNO ₃	Salt Peter; Niter	
Potassium Permanganate	KMnO ₄	Permanganate of Potash; Chameleon Mineral	Mn Zeol. Regenerant Chemical Feed
Sodium Bisulfate	NaHSO ₄	Sodium Acid sulfate; Nitre Cake	
Sodium Bicarbonate	NaHCO ₃	Baking soda; Bicarbonate of Soda	
Sodium Carbonate	NaCO ₃	Soda Ash; (Sal Soda; Washing Soda)	Neutralization
Sodium Chlorite	NaClO ₂		Disinfection
Sodium Chloride	NaCl	Common (Table) Salt	Softener Regenerant
Sodium Fluoride	NaF		Fluoridation
Sodium Hydroxide	NaOH	Caustic Soda; Lye; Soda Lye	DI Anion Regenerant Stabilization
Sodium Hypochlorite	NaOCl	Household Bleach	Disinfection
Sodium Nitrate	NaNO ₃	Chile Salt Peter	
Sodium Sulfite	Na ₂ SO ₃	Santosite	Deaeration; Dechlorination
Sodium Sulfate	Na ₂ SO ₄	Glauber's Salt	
Sulfuric Acid	H ₂ SO ₄	Oil of Vitriol; Vitriol, Oleum = 66 ° Be	DI Cation Regenerant