

Common chemical compounds and their formulas for Class 10 Science

Compound	Formula	Description
Water	H_2O	A vital compound for all forms of life.
Carbon Dioxide	CO_2	A gas produced by burning carbon and organic compounds and by respiration.
Oxygen	O_2	A gas that supports life and combustion.
Hydrochloric Acid	HCl	A strong acid commonly used in laboratory and industrial applications.
Sodium Hydroxide	$NaOH$	Also known as caustic soda, it's a highly caustic base and alkali used in many industries.
Sodium Chloride	$NaCl$	Commonly known as table salt, used in food and for many industrial processes.
Baking Soda	$NaHCO_3$	Also known as Sodium Bicarbonate, used in cooking and as an antacid.
Washing Soda	$Na_2CO_3 \cdot 10H_2O$	Also known as Sodium Carbonate Decahydrate, it's used as a cleaning agent.
Marble	$CaCO_3$	Also known as Calcium Carbonate, used in building and construction, and is the main component of seashells and limestone.
Quick Lime	CaO	Also known as Calcium Oxide, used in building materials and industrial applications.
Slaked Lime	$Ca(OH)_2$	Also known as Calcium Hydroxide, used in the food industry and for water treatment.
Bleaching Powder	$CaOCl_2$	Also known as Calcium Hypochlorite, used for disinfection and sterilization.

Compound	Formula	Description
Methane	CH_4	A main component of natural gas, it's a hydrocarbon used for heating and in power generation.
Ammonia	NH_3	A compound used widely in fertilizers and cleaning solutions.
Sulphuric Acid	H_2SO_4	A strong acid used in laboratories and industries.
Nitric Acid	HNO_3	A strong acid used in laboratories and to make fertilizers.
Acetic Acid	CH_3COOH	Also known as Vinegar when diluted, it's used in food preparation and various industrial processes.
Gypsum	$CaSO_4 \cdot 2H_2O$	Used as a fertilizer and as the main constituent in many forms of plaster, drywall, and chalk.
Plaster of Paris	$CaSO_4 \cdot \frac{1}{2} H_2O$	Used in making casts and patterns for statues, and to fill small gaps on walls and roofs.
Blue Vitriol	$CuSO_4 \cdot 5H_2O$	The pentahydrate of Copper Sulphate, used as a fungicide.
Milk of Magnesia	$Mg(OH)_2$	Magnesium Hydroxide, used in antacids and laxatives.
Sucrose	$C_{12}H_{22}O_{11}$	Used as a sweetener.

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