

Physical properties, composition and data

Chemical formula	NaOH or HNaO
Synonym	Caustic soda; Lye; Soda lye; Sodium hydrate; White caustic
Mixture	Sodium hydroxide and water
Atomic weight	40.00
Appearance	White, fused deliquescent pellets, flakes or small pearls. Clear, colourless solution
Miscibility	Soluble in miscible with water, ethanol, methanol and glycerol
Melting point	318°C
Density (g/ml)	Solids 2.13 and solution 1.05
pH (aqueous solution)	13.7
Incompatible substances	Acids
Hazardous material	Corrosive
Boiling point	1390°C

Laboratory preparation, applications and practices

Laboratory preparation	By reacting calcium hydroxide with sodium carbonate In concentrated form (ampoule), make contents up to 1L with distilled water rinsing the ampoule in the process
Usage	Analytical reagent. Solution: To neutralize acids
Filter paper	Filtech no: 0222, 0225, 1839

Storage and handling information

Storage	Keep container tightly closed and store separated from incompatible substances, acids and halogenated hydrocarbons
Safety phrases	26-37/39-45
Risk phrases	35
Disposal methods	2

Transport regulations

Tariff code	2815.11.00
Hazardous class	8
Packing group	II
UN number	1823
ERG number	154

