Sodium Hydroxide Solution 20%

Caustic Soda Solution – up to 20% NaOH

Product Description	Sodium hydroxide solution (caustic soda solution) containing up to 20% NaOH, made by diluting high-purity caustic soda with water. Supplied as a clear, colourless, ready-to-use liquid, so there is no need to handle or dissolve solid caustic soda. Strongly alkaline and corrosive.
Sizes	5L and 25L
Recommended Uses	pH regulation and pH control; ion exchange resin regeneration; cleaning and degreasing agent; etching agent; chemical intermediate; chemical manufacture and processing; detergents and soaps.
Product Code	S129-5.0, S129-25
Chemical Name	Sodium hydroxide solution (caustic soda solution, aqueous sodium hydroxide)
CAS / EC No	Sodium hydroxide: CAS 1310-73-2 / EC 215-185-5 Water: CAS 7732-18-5 / EC 231-791-2
Molecular Formula	NaOH (aqueous) – Molecular weight of NaOH 40.01 g/mol

Specification

Characteristic	Value	Unit
Concentration (as NaOH)	≤ 20	% w/w
Sodium Carbonate (Na_2CO_3) *	0.16 max	%
Sodium Chloride (NaCl) *	0.10 max	%
Iron (Fe_2O_3) *	10 max	ppm
Appearance	Clear, colourless liquid	–
Relative Density @ 20 °C	approx. 1.22	–
Density @ 20 °C	approx. 1220	kg/m³
pH	14	–
Freezing Point	approx. −26	°C
Boiling Point	approx. 108 – 110	°C
Vapour Pressure @ 20 °C	approx. 17	hPa
Dynamic Viscosity @ 20 °C	approx. 4 – 5	mPa·s
Kinematic Viscosity @ 20 °C	approx. 3.5 – 4	mm²/s
Solubility in Water	Miscible	–

*** Calculated maximum, based on the specification of the caustic soda pearls used to make the solution (99.0% min NaOH). Excludes any contribution from the dilution water. Values marked approx. are typical figures for a 20% solution, not guaranteed limits.**

Physical Form	Liquid (aqueous solution)
Colour	Clear, colourless
Odour	Odourless
pH	14
Flammability	Non-flammable
Storage Conditions	Keep containers tightly closed in a cool, well-ventilated place. Protect from frost (freezes at approx. −26 °C). The product absorbs carbon dioxide from the air, so keep containers closed when not in use. Store locked up and away from acids and other incompatible materials. Suitable packaging materials: polyethylene, polyethylene-lined steel, stainless steel. Do not use aluminium, zinc or galvanised containers.
Product Notes	When diluting further, always add the solution slowly to water while stirring – never add water to the product. Heat is generated on dilution. Contact with metals such as aluminium and zinc liberates flammable hydrogen gas. Reacts violently and exothermically with acids.

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Classification	Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1 – Signal word: Danger
Hazard Statements	H314 – Causes severe skin burns and eye damage. H290 – May be corrosive to metals.
Transport	UN1824, SODIUM HYDROXIDE SOLUTION, Class 8, Packing Group II
Safety Data Sheet	**Sodium Hydroxide Solution**
Health & Safety	Containers are provided with safety labels which should be observed. Further information about hazardous influences and protection is detailed in the Safety Data Sheet.

The information given on this sheet is, to the best of our knowledge, true and accurate. However, as the conditions of storage, handling and use are beyond our control, no guarantee of results is implied and no liability can be accepted for any loss or damage arising from the use of this material. This does not affect any liability under the Consumer Protection Act 1987 or the Health & Safety at Work etc. Act 1974. Health and safety data is available on this product and should be referred to prior to its use.

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