

SODIUM HYDROXIDE SOLUTION

Technical Grade

Technical Data Sheet

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Product Data

Chemical Name	Caustic Soda water solution IUPAC name: Sodium Hydroxide, NaOH
Molecular Weight	40
REACH registration nr.	01-2119457892-27-0065
Chemical formula	NaOH
C.A.S. number	1310-73-2
UN number	1824

Applications

The main uses of sodium hydroxide are in chemical manufacturing (pH control, acid neutralization, off-gas scrubbing and catalyst); pulp and paper manufacturing; in petroleum and natural gas industry, manufacture of soap and detergents and other cleaning products; and celluloses, such as rayon, cellophane and cellulose ethers; cotton mercerizing and scouring.

Other uses include water treatment, food processing, flue-gas scrubbing, mining, glass making, textile processing, refining vegetable oils, rubber reclamation, metal processing, aluminium processing, metal degreasing, adhesive preparations, paint remover, disinfectant.

Specification*

Test	Requirements
Appearance (visual)	Clear liquid, free of mechanical impurities
Assay (NaOH)	min. 48 %
Sodium Carbonate (Na ₂ CO ₃)	max. 0,25 %
Sodium Chloride (NaCl)	max. 0,05 %
Iron Oxides (Fe ₂ O ₃)	max. 0,001 %

Hazard classification and safety measures

Sodium Hydroxide solution is classified in ADR class 8 (corrosive substances) and has to be transported and handled accordingly. While handling Sodium Hydroxide, wearing protective glasses and a face shield is recommended. For skin protection, wear protective clothing and protective gloves. For more information, please take a look at our safety data sheets.

Packing and storage

Sodium hydroxide is delivered in steel, alloyed steel (acidproof steel) or rubber-lined steel tankers or in 1 m³ plastic tanks, which are appropriate from the aspect of corrosion protection. Recommended storage temperature: above 16°C, but it is not recommended to exceed 35°C. The majority of tankers are equipped with internal heating coil connected to steam supply.

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