

CAUSTIC SODA LYE

Electrolytic Processes

Last revision 2011

Chemical Name: Molecular formula: NaOH
 NO.CAS 1310-73-2
 Abbreviation: Caustic Soda

General Description:

Caustic soda lye (sodium hydroxide solution) is manufactured by membrane electrolysis and mercury cathode electrolysis.

It is a clear, colorless, odorless and crystalline liquid.

Sodium hydroxide is a strong electrolyte, being completely ionized in solution state. It is a stable product when stored under normal conditions of pressure and temperature, in tightly closed tank cars or containers.

Technical Quality Conditions:

Characteristics	MU	Values	Testing methods
Appearance	-	clear liquid, free of mechanical impurities	visually
Sodium hydroxide (NaOH), min.	%	48	STAS 3068
Sodium carbonate (Na ₂ CO ₃), max.	%	0.25	STAS 3068
Sodium chloride (NaCl), max	%	0.035	STAS 3068
Iron oxides (Fe ₂ O ₃), max.	%	0.001	STAS 3068

Specific Properties:

pH	strongly alkaline
Boiling point	145°C
Ignition temperature	not ignitable
Density at 25°C	1.53

The specific properties present approximate values and contain general information, without being part of the technical quality conditions.

Main Applications:

- oil industry
- petrochemical industry
- aluminum industry
- pulp and paper industry
- soap and detergents industry
- chemical industry (for the manufacturing of dyestuff, phenol, phosphates, sodium hypochlorite, polycarbonates, zeolites etc.)
- food industry
- pharmaceutical industry
- water treatment (softening, demineralization)
- textile industry at the manufacturing of cellulose fibers by viscose process

TECHNICAL SHEET



Packaging and storage:

Caustic soda solution is stored in inner covered steel reservoirs or tanks.

The product is delivered in inner covered steel tanks equipped with heating coils, supplier or customer property, 20 or 40 tons capacity.

Safety Information:

Caustic Soda solution is a corrosive product.

Before handling and using of product, the personnel must be aware of the dangers implied. This information is available in MSDS and on the product label.

Warning:

Please contact OLTCHIM to see if the document has been revised and for any other additional information related to the product.

Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information provided herein.