

CAUSTIC SODA LYE

HG Type

Last revision 2008

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

General Description:

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

Sodium hydroxide solution is a colorless, odorless and clear 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	Test methods
Appearance	-	clear liquid, free of mechanical impurities	visual
Sodium hydroxide (NaOH), min.	%	48	STAS 3068
Sodium carbonate (Na ₂ CO ₃), max.	%	0.25	STAS 3068
Sodium chloride (NaCl), max	%	0.05	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
- wood chemical treatment
- soap and detergents industry
- chemical industry (for the manufacturing of dyestuff, phenol, phosphates, sodium hypochlorite etc.)
- aluminum industry
- waste water treatment



Shipping Information:

- stainless steel / coated tank cars or containers of 20 or 40 tons, equipped with heating coils;
- non-returnable steel drums.

Storage:

Caustic soda lye should be stored at temperatures between 85° to 100°F (29° to 38°C). For storage below 120°F (49°C) temperature, the product needs to be stored in mild steel, butt-welded tanks. High temperature alarms should be included.

Tanks and pipes should be insulated to prevent the caustic soda solution from freezing.

Safety Considerations:

Please refer to the product Material Safety Data Sheet (MSDS) offering customers help to better satisfy their particular handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations.

Warning:

- Caustic soda solution is highly corrosive hazardous product. Avoid body contact. Dangerous to eyes and skin. Destroys skin tissues and causes severe chemical burns. Inhalation can cause serious injury to respiratory tract. Ingestion can injure the digestive system.
- The viscosity of 50% caustic soda solution increases rapidly when its temperature falls below 65°F (16°C).

Attention:

Information contained in this document is provided to the best of our knowledge and experience.

Please contact OLTCHIM to see if the document has been revised.

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.