

LIQUID CAUSTIC SODA 30%

PDS-1110-1105

Liquid caustic soda is manufactured by electrolysis of purified and concentrated brine using mercury, diaphragm or membrane cell technology as follows:



Liquid caustic soda is a colourless odourless liquid. Liquid caustic soda is a strong base used as a chemical reagent, pH-regulating, ion exchanger regenerating agent, catalyst, etching or cleaning agent.

Some applications of this product may be regulated or restricted by national or international standards (e.g. for food additives, water treatment, the pharmaceutical industry, etc). The buyer and the eventual user, in his sole and entire liability, shall respect those standards, orders of any relevant authority, and all existing patents and intellectual properties rights; and shall comply with the laws and the regulations applicable to our products and/or to his activity. The buyer and the eventual user must independently determine the suitability of this product for any particular purpose and its manner of use.

Please contact us for further information on grades developed for a specific end-use.

Plants

Jemeppe (Belgium), Lillo (Belgium), Rheinberg (Germany), Tavaux (France), Rosignano (Italy), Bussi (Italy).

Storage Plants

Bad Zurzach (Switzerland), Tavazzano (Italy).

Standard specification

Product characteristics

Content	Unit	Value ⁽¹⁾	Method of analysis ⁽²⁾
Total alkalinity (NaOH)	g/kg	300 ± 10	Titrimetry (ISO 979)
Sodium carbonate (Na ₂ CO ₃)	g/kg	≤ 0,4	Titrimetry (ISO 3196)
Heavy metals* (Pb) (* H ₂ S Group)	mg/kg	≤ 10	ICP-AES** (ISO 11885) or precipitation test (ANA-1110-0002) (**) Inductively coupled plasma atomic emission spectroscopy

(1) The values are expressed per kg of solution as such.

(2) The product is analysed with the mentioned methods or with local methods depending on laboratory equipments.

Packaging characteristics

Bulk.

Please contact us for further information on product characteristics (methods of analysis, etc) and packaging characteristics (description of road tankers, etc).

Identification

Sodium hydroxide	NaOH
Molecular weight	40,01
CAS Number	1310-73-2
ID Number (Annex 1)	011-002-00-6
EC Number (EINECS)	215-185-5

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Physical and chemical characteristics

Characteristic	Unit	Value
Density (at 20 °C)	kg/dm ³	1,328
Boiling point (under 101,3 kPa)	°C	117,5
Freezing point (under 101,3 kPa)	°C	0
Viscosity (at 20 °C)	mPa.s	3,522
Viscosity (at 40 °C)	mPa.s	12,6

Storage

- Liquid caustic soda must be stored in compliance with relevant laws and regulations. According to climatic conditions and to product concentration, it may be necessary for tanks to be heat insulated and/or equipped with a heating system. Tanks should be banded.
- Liquid caustic soda must be disposed of in compliance with relevant laws and regulations. In case of accidental release, it could be diluted with large quantities of water and then neutralized with an acid.

Please contact us for further information on product handling and storage.

Safety

- Liquid caustic soda is a **corrosive** product. It rapidly produces burns of the mucous membranes, eyes and skin.
- Liquid caustic soda reacts violently with water and acids with heat release. In contact with some metals, it releases hydrogen.
- Liquid caustic soda should be handled by personnel who have received adequate safety training and have been provided with adequate **individual protective equipments** (gloves, goggles, etc).
- Handling of liquid caustic soda should be accompanied by **collective protective measures** (clearly signalled showers and eye baths in the vicinity).

Please consult our safety data sheet.

Transport information

UN number	1824
ADR/ADNR/RID/IMDG class	8
Packing group	II
Hazard label	8
Placard	80/1824

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