

# SODIUM HYDROXIDE SOLUTION



**Manufacturer:**  
"HaloPolymer Kirovo-Chepetsk", LLC

ISO 9001:2015, IATF 16949:2016, EN 9100:2016

**Chemical name:** Sodium Hydroxide (IUPAC)  
**Synonyms:** Caustic soda, Sodium hydrate  
**Structural formula:** Na+ OH-  
**CAS No.** 1310-73-2  
**EC No.** 215-185-5  
**HS code** 28 1512 0000



| PROPERTIES  | UNITS | TYPICAL VALUE                | TEST METHOD                  |
|---|-------|------------------------------|------------------------------|
| Appearance  | -     | Colorless transparent liquid | Visual                       |
| Mass fraction of sodium hydroxide (NaOH), min                             | % wt  | 46                           | Titrimetry                   |
| Mass fraction of sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> ), max | mg/kg | 300                          | Titrimetry                   |
| Mass fraction of sulphates (SO <sub>4</sub> ), max                        | mg/kg | 20                           | Photometry                   |
| Mass fraction of sodium chloride (NaCl), max                              | mg/kg | 50                           | Photometry                   |
| Mass fraction of silicic acid (as SiO <sub>2</sub> ), max                 | mg/kg | 20                           | Photometry                   |
| Mass fraction of calcium (Ca), max  | mg/kg | 15                           | AAS                          |
| Mass fraction of magnesium (Mg), max                                      | mg/kg | 2                            | AAS                          |
| Mass fraction of potassium (K), max                                       | mg/kg | 200                          | flamme emission spectrometry |
| Mass fraction of iron (Fe), max   | mg/kg | 5                            | Photometry                   |
| Mass fraction of mercury (Hg), max  | mg/kg | 0,1                          | AAS                          |
| Total content of heavy metals (as lead), max                              | mg/kg | 0,5                          | Photometry                   |



## Main application:

It is most frequently used in the manufacture of other chemicals, both of organic and inorganic origin. In addition, it is used in pulp and paper industry, aluminum and metal production, food industry, water treatment and textile industry. The rest is used in the production of soap, mineral oils, bleaches, phosphates, cellulose, rubber, etc.

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**Package:**

Tank containers on a railway platform with volumes up to 27 mt on a platform. At the air temperature lower than 10°C before the unloading from tank the product should be heated.



**Transportation:**

By railway transport.



**Storage:**

Sodium hydroxide is stored in intermediate bulk containers or within large stationary storage tanks. Common materials that are compatible with sodium hydroxide include: polyethylene, polyvinyl chloride (PVC), stainless steel, and fiberglass reinforced plastic.



**Guarantee storage life:**

36 months from the date of manufacture.