



## SODIUM HYDROXIDE min. 49% used for treating water for human consumption

CAS 1310-73-2 (sodium hydroxide)

ES number 215-185-5

### CHARACTERISTICS

Technical sodium hydroxide for treating water designated for human consumption (hereinafter referred to as "sodium hydroxide") is an approximately 50% aqueous solution of sodium hydroxide. It is produced by electrolytic decomposition of a sodium chloride solution.

Sodium hydroxide is a transparent and colorless liquid, sometimes slightly cloudy, without any mechanical pollutants. It easily dissolves in water and alcohol. It intensely heats up upon coming into contact with water. It has a strong alkali reaction. It is very caustic.

Sodium hydroxide complies with the requirements specified by Act No. 258/2000 Coll., as amended, and Directive of the Ministry of the Health No. 409/2005 Coll., as amended (assessing health harmlessness of sodium hydroxide used for the treatment of drinking water by the National Institute of Public Health Prague 10, Šrobárova 48, from June 9<sup>th</sup>, 2014 - reference number 1971/2014 EX 140750), and it is used in chemical, textile, food and metallurgical industries, for processing oils and fats, for the production of soap, and, when diluted, for washing milk and beer bottles.

Sodium hydroxide is classified in accordance with Act No. 350/2011 Coll. (Chemical Act), Directive No. 1907/2006 (REACH) and Directive No. 1272/2008 (CLP), including their implementation regulations and, if applicable, legal regulations that may replace them in the future. The actual classification is stated on the appropriate safety sheet. When handling or working with sodium hydroxide, the occupational health and safety regulations stated in Chapter VI of the corresponding company standards and on the safety sheet have to be always observed.

Sodium hydroxide is made in accordance with the valid technological, fire and safety documentation.

### TECHNICAL REQUIREMENTS

Quality sign	Unit	Values	It is tested in pursuant to
Overall alkalinity (such as NaOH), min.	% of the	49.0	SOP-A-185
Sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> ), max.	% of the	0.2	SOP-A-185
Chlorides (such as NaCl), max.	% of the	0.017	SOP-A-103
Iron (Fe), max.	% of the	0.0005 <sup>*)</sup>	SOP-A-185
Sodium chlorate (NaClO <sub>3</sub> ), max.	% of the	0.7	SOP-A-185
Mercury (Hg), max.	mg/kg	0.1	SOP-A-131
Arsenic (As), max.	mg/kg	2	SOP-A-133
Antimony (Sb), max.	mg/kg	5	SOP-A-133
Selenium (Se), max.	mg/kg	5	SOP-A-133
Lead (Pb), max.	mg/kg	5	SOP-A-186
Chromium (Cr), max.	mg/kg	1	SOP-A-186
Nickel (Ni), max.	mg/kg	2	SOP-A-186
Cadmium (Cd), max.	mg/kg	1	SOP-A-186

<sup>\*)</sup> The parameter is tested utilizing a reduced inspection. The declared level of the quality parameter is guaranteed by the manufacturer. The measured value does not have to form a part of the given quality certification.

Issue number / Revision number	Replaces the Material sheet from	In effect from:	Page 1 of 1
3	2006-01-16	2015-12-01	