

SODIUM HYPOCHLORITE

Last revision 2008

Chemical Name: Molecular formula: NaOCl
 No. CAS: 7681-52-9
 Abbreviation: -

General Description:

Sodium hypochlorite (NaOCl) is a solution made from reacting chlorine with a sodium hydroxide solution.

Sodium hypochlorite (NaOCl) is a clearly water solution, yellowish or greenish, with specific chlorine odour.

Sodium hypochlorite has a variety of uses and is an excellent disinfectant/antimicrobial agent.

Technical Quality Conditions:

Characteristics	MU	Values	Test methods
Appearance	-	clear liquid	visual
Color	-	yellow-greenish	visual
Active chlorine (Cl), min.	%	13	STAS 918
Chlorides (Cl), max.	%	1.5	STAS 918
Free sodium hydroxide.	%	0.7 - 2	STAS 918
Sodium carbonate, max.	%	2	STAS 918

Specific Properties:

Relative molecular weight	74.44
Boiling point (range)	48 – 76 °C, with decomposition in sodium chlorate and chloride
Density, g/cm ³	1.09 for solution 5.25% 1.15 for solution 8.0% 1.21 for solution 12.0%

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



Main Applications:

- as bleaching agent in textile, paper and pulp industries;
- as oxidizing agent in chemical industry;
- water treatment;
- as disinfectant agent in housekeeping;
- textile industry for production of viscose fiber and silk;
- power industry, etc.

Shipping Information:

- 50 tons rubber or polyvinylchloride coated steel tanks.
The tank capacity should be adequate to carry a sufficiently large stock and be able to receive the total amount of volume from the road tanker.

Storage:

Sodium hypochlorite must be stored and disposed of in compliance with relevant regulations.

The product should be stored in metal tanks provided with inner anticorrosive protection, kept cooled at temperatures under 25°C, in dry places and must not be exposed to heat and direct sunlight.

Because of its instability, sodium hypochlorite must not be in contact with metals (cobalt, copper, iron, nickel and their alloys and salts).

Handling should be accompanied by collective protective measures.

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:

Sodium hypochlorite can release chlorine gas. Never mix Sodium hypochlorite with acids or acidic chemicals.

Sodium hypochlorite is a corrosive and oxidizing product, irritating for skin, eyes and mucous membranes.

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.