

Sodium hypochlorite

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Sodium hypochlorite is a clear, slightly yellowish solution with distinct odor. It is produced by reacting chlorine with a solution of sodium hydroxide. Sodium Hypochlorite shows, as well as chlorine, a very high reactivity and oxidizing power, but as a solution it is easier to handle and more cost-effective than chlorine. For more information on Sodium Hypochlorite, please download our Application Guide or Product Data Sheet.

CAS number
7681-52-9

REACH number
01-2119488154-34

EINECS/ELINCS No.
231-668-3

Molecular weight
74.44

Molecular formula
NaOCl

Characteristics

Density	1.207-1.230 g/cm ³
Density (vacuum), 20°C	1.207 - 1.230 kg/l
Dynamic viscosity, 25°C	2.6 mPa.s
Explosion limits in air, 1013 mbar	non-explosive % v/v
Flash point in air, 1013 mbar	non-inflammable °C
Heat capacity, 20°C	3.5 J/g.K
pH	>12
Solubility in water, 20°C	Soluble in all ratios
Specific conductance (free from traces of water or ethanol), 25°C	0.23 S/cm
Vapor pressure, 20°C	2.5 kPa

Applications

Sodium hypochlorite is generally used as bleached in some of the following applications: Drinking-, process-, cooling- and swimming water, household and industrial cleaning, starch modification and the chemical industry.

Storage

Sodium hypochlorite is highly corrosive. To prevent damage to installations, contact with metal pipes, valves, meters, etc. must be strictly avoided. Sodium hypochlorite should not be stored at higher temperatures as this increase the rate of decomposition. Product should not come in contact with acids because of the formation of chlorine gas.

Packaging and transport

Sodium hypochlorite is dispatched in bulk by road trailers.. The actual Full Truck Load (FTL) is geospecific and can therefore differ due to local regulations and legislation.

UN number

1791

Safety and handling

Sodium hypochlorite is a strong base and oxidizing agent. Please note that sodium hypochlorite can cause damage to the eyes, the skin and gastrointestinal tract. Sodium hypochlorite reacts with hydrochloric acid forming toxic chlorine gas. For additional safety data and/or PPE usage, we refer to our material safety data sheets (MSDS).

Additional information

Available product supply forms: Sodium hypochlorite 150 g/l, and Sodium hypochlorite 170 g/l

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

Contact Us

Arnhem

Velperweg 76
6824 BM Arnhem
The Netherlands
+31 26 366 4433
industrialchemicals@nouryon.com

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