

# Sodium Hydrosulfide 42%

Sodium hydrosulfide

Sodium Hydrosulfide is an economical form of reactive sulfur that is typically a light-yellow colored solution with the accompanying odor of rotten eggs. Hydrogen Sulfide (H<sub>2</sub>S), a toxic gas, is evolved upon contact of Sodium Hydrosulfide with acids.

**CAS number**  
16721-80-5

**EINECS/ELINCS No.**  
240-778-0

**Molecular weight**  
56.06

**Molecular formula**  
NaSH/NaHS

## Specifications

Na <sub>2</sub> S	≤ 3 % w/w
NaSH	≥ 40 % w/w
Total sulfide (as NaSH)	≥ 42 % w/w

### Notes:

Analytical methods are available on request.

## Applications

Sodium hydrosulfide is used as a reactive form of sulfur and acts as an intermediate in the production of other chemicals, including thio-chemicals used in textile processing, in the production of flame retardant resins, and in vulcanization accelerators. Sodium hydrosulfide is also used as a processing aid in the production of a variety of industrial products. It is a de-hairing agent in the production of fine leathers. In mining, it is a flotation agent, helpful in the precipitation of metals from ore slurries. Sodium hydrosulfide is also valuable as a raw material in the production of heat-resistant plastics for the auto and electronic industries. In paper making, Sodium hydrosulfide is used to add sulfidity to cooking liquor in kraft pulp mills.

## Storage

Store under nitrogen atmosphere in closed storage tanks. Requirements regarding storage tank design are available on request.

## Packaging and transport

Shipped in: Tank Trailers, ISO Tank Containers and Rail Tank Cars.

UN number	2922 (CORROSIVE LIQUID, TOXIC, N.O.S.(Sodium hydrogensulphide))
Hazard Identification No.	86

## Safety and handling

Sodium Hydrosulfide 42% is classified as a hazardous substance. Although hydrogen sulfide (H<sub>2</sub>S) forms a stable bond with caustic in the NaSH solution, toxic vapor concentrations of H<sub>2</sub>S above the liquid are possible and typical for high quality NaSH solutions. For this reason NaSH should always be handled in closed systems under inert gas while vapors should be treated before venting into the air. Tank containers should not be opened at any time unless the tank is properly decontaminated. See our safety data sheet (SDS) for further information.

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.

For more information, please visit our website at [www.nouryon.com](http://www.nouryon.com).

## Contact Us

For more information contact us at:  
[intermediates@nouryon.com](mailto:intermediates@nouryon.com)

The logo for Nouryon, featuring a stylized blue 'N' followed by the word 'ouryon' in a blue sans-serif font.