

Product Specification

SODIUM HYDROSULFIDE AQ. SOL. 40%

Chemical Name:	Sodium Hydrosulfide, 40% solution in water
Molecular Formula:	NaSH
Molecular Mass:	56.1 g/mol
CAS-No.:	16721-80-5
EC-No.:	240-778-0

Properties

Viscosity (20 °C):	approx. 5.6 mm ² /s
Vapour Pressure (20 °C):	approx. 15 mbar
Vapour Pressure (50 °C):	approx. 52 mbar
Crystallisation Point:	approx. + 4 °C
Boiling Point (1 bar):	approx. 120 °C

Specification

Appearance:	yellow to green liquid
Content:	39 – 41 %
Density (20 °C):	1.255 – 1.270 kg/l
Na ₂ CO ₃ :	max. 0.5 %
Na ₂ S:	max. 0.3 %

Analytical methods are available on request.

Major Applications

Sodium Hydrosulfide is used as intermediate in chemical industry for production of thioglycolic acid, textile dyes, polysulfide elastomers, etc. Furthermore it is used as auxiliary in wood pulp production, mining and ore industry as well as for waste water treatment.

Storage

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

Packing and Transport

SODIUM HYDROSULFIDE AQ. SOL. 40%
is delivered in:

- Rail tank cars (SAP-No. 5404293)
- ISO Tank Containers (SAP-No. 5404293)
- Road tankers (SAP-No. 5404293)

Hazard Identification No.:	86
UN-No.:	2922

Safety advice

SODIUM HYDROSULFIDE AQ. SOL. 40% is classified as a hazardous substance. Although hydrogen sulfide (H₂S) forms a stable bond with caustic in the NaSH solution, toxic vapor concentrations of H₂S 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 material safety data sheet (MSDS) for further information.

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