

Product Specification

SODIUM HYDROGENSULFIDE AQ. SOL. 40%

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

Properties

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|--------------------------|--------------------------------|
| 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

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|-----------------------------------|------------------------|
| 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 Hydrogensulfide is used as intermediate in chemical industry for the 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 HYDROGENSULFIDE AQ. SOL. 40% is delivered in:

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

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

Safety advice

SODIUM HYDROGENSULFIDE 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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