

Sodium Hydrogen Sulphate

Sodium bisulphate

NaHSO₄

CAS-No.: 7681 – 38 – 1

Molar mass: 120,06 g/mol

Product description

Sodium hydrogen sulphate is a white to slightly yellow, pearly product. It is odourless and well soluble in water. Aqueous solutions show an acid reaction, they are caustic and have a corrosive effect on metals. Sodium hydrogen sulphate is hygroscopic.

Technical data		
Sodium hydrogen sulphate	% (m/m)	min. 93
Iron	% (m/m)	max. 0,015
Water	% (m/m)	max. 0,2
Sodium sulphate	% (m/m)	max. 6
Chloride	% (m/m)	max. 0,1
Insoluble in water	% (m/m)	max. 0,1
Bulk density	g/cm ³	1,40 – 1,45
Melting temperature	°C	approx. 180
pH value [20 % in water]		approx. 1 – 1,2
Solubility in water at 25°C	g/l	approx. 1080

Transport and storage

Transport is effected in 25 kg bags, in flexible bulk containers (big bags) with a maximum capacity of 1000 kg as well as in silo tank trucks. Storage of the product should be effected in dry and cool places which are air-sealed, if possible.

GGVE/RID	not classified	IMDG-Code	not classified
GGVS/ADR	not classified	UN-Number	not classified
ADNR	not classified	IATA – DGR	not classified

Applications:

Technical quality

■ Chemical-technical industry	As a so-called solid acid for the dehydration of castor oil.
■ Dye mills and textile industry	Auxiliary agent for bleaching and dyeing of wool, additive for spin baths for the spinning of viscose, for the improvement of colour retention when using dicyandiamide.
■ Glass and optical industry	Polishing and grinding agent for technical glass.
■ Caoutchouc production	Auxiliary agent for the regeneration of used caoutchouc.
■ Leather industry	Pickling salt for the plumping and bleaching of skins.
■ Metal industry	As a flux for metal pickling.
■ Mineral oil industry	For the extraction of nitrogen compounds from hydrocarbons (gas scrubbing).
■ Cleaner industry	Toilet cleaner, acid cleaners for household, industry and dairies.
■ Water and sewage water treatment	For pH adjustment, also for pool water. (DIN 19643, April 1984).

These details correspond to the current status of our knowledge and are meant to provide information on our product and its applications. They are not intended to promise certain properties of the product or its suitability for a concrete application. Any existing industrial property rights are to be taken into consideration. We guarantee proper quality within the scope of our General Conditions of Sale.

Status: July 2003