



DESSALATOR®

CONSTRUCTION DE DESSALINISATEURS – ASSISTANCE TECHNIQUE NAVALE
WATER MAKER MANUFACTURE – TECHNICAL SHIPPING ASSISTANCE

TECHNICAL DATA SHEET

SODIUM METABISULPHITE HP

PHYSICO-CHEMICAL CHARACTERISTICS

Formula : $\text{Na}_2\text{S}_2\text{O}_5$
Molecular weight : 190.12
Synonyms : Sodium bisulphite anhydrous, sodium pyrosulphite, sodium disulphite.
Specific gravity : 1.2-1.3 kg/dm^3 approx.
Water solubility : increases with the temperature according to the following table:

t°C	10	15	20	25	30	40	50	60	70	80
g $\text{Na}_2\text{S}_2\text{O}_5$ /100 g soln	38.8	39.2	39.6	40.1	40.5	41.7	42.8	44.1	45.5	46.9

QUALITATIVE CHARACTERISTICS

Appearance of the product	white crystalline powder
Appearance of the 20% soln	clear and colourless or pale yellow
Assay	% $\text{Na}_2\text{S}_2\text{O}_5$ > 98
Thiosulphate	% S_2O_3 < 0.04
Iron	% as Fe < 0.0005
Heavy metals	% as Pb < 0.001
Selenium	% as Se < 0.0005
Arsenic	% as As < 0.0001
Lead	% as Pb < 0.0005
Mercury	% as Hg < 0.0001

The above mentioned values are according to the requirements of:
EC directive 96/77 (food additives), FCC IV (96), ANSI PH4.276 and ISO 3627 (photo standards)

The indicated values are intended as determined according to our standard analysis methods.

STANDARD PACKAGING

25 kg polyethylene
1 kg aluminium-polyethylene

STORAGE

Store the product in a dry and cool place because the wet product easily oxidises to sodium sulphate, while heated over 60°C develops SO_2 , yielding sodium sulphite.

MAIN USES

In food industry as additive (E223) preservative, antioxidant and antimicrobial for fruits (dried, glazed and candied), vegetables (onions, potatoes, etc.), juices (citrus and grapes) and fish (shrimps and prawns).
In silage treatment as antifermentative.
In starch and sweeteners production as bacteriostatic.
In the photographic industry as component of developer bath.
In desalting plants with reverse osmosis (for removing the excess of chlorine and for membrane preservation) or in drinking water treatment (to remove the excess of chlorine).
In chemical synthesis in the production of acrylic fibres, vitamin K, vitamin A, pharmaceutical intermediates, etc.

FOR HANDLING INFORMATION PLEASE CONSULT THE SAFETY DATA SHEET.

THIS TECHNICAL DATA SHEET IS IDENTIFIED AS **NPH 1 (0699) E**