



# TECHNICAL DATA SHEET

## SODIUM BISULPHITE SOLUTION HP 20% SO<sub>2</sub>

### PRODUCT DATA AND TYPICAL PROPERTIES

Formula	: NaHSO <sub>3</sub>
Molecular weight	: 104.06
Specific gravity (20°C)	: 1.26 (typical)
Crystallisation temperature	: 0°C approx.

### PRODUCT SPECIFICATION

Appearance		clear pale yellow liquid
Assay	% w/w SO <sub>2</sub>	20.5 ± 0.5
	% w/w NaHSO <sub>3</sub>	33.3 ± 0.8
pH (20°C, neat)		3.5-5.0
Sulphates	% Na <sub>2</sub> SO <sub>4</sub>	< 1.5
Iron	% as Fe	< 0.00020
Heavy metals	% as Pb	< 0.001
Selenium	% as Se	< 0.0001
Arsenic	% as As	< 0.0001
Lead	% as Pb	< 0.0002
Mercury	% as Hg	< 0.0001
Antimony	% as Sb	< 0.0001
Cadmium	% as Cd	< 0.0001
Chromium	% as Cr	< 0.0001
Nickel	% as Ni	< 0.0001

The product supplied to this specification meets the requirements for food additive E222 - EU 231/2012 & EU 497/2013. This material conforms to section 5.4 (chemical parameters) of BS EN 12120:2022.

The product is tested using our standard analytical methods.

### STANDARD PACKAGING

Road tankers, according to transport regulations.  
1000 litre Intermediate bulk containers (IBCs), 200 and 25 litre polyethylene drums.

### HANDLING AND STORAGE

Shelf life:	Nominally 18 months.
Storage Conditions:	Do not keep part full containers. Rapid deterioration due to oxidation will occur.
	In full, sealed containers in a cool place, out of direct sunlight, ideally in a warehouse. Store at 10-20°C.
	Store away from acids and oxidising agents or products that could release acids.

### MAIN USES

In food industry as an additive, preservative, antioxidant and anti-microbial.  
In sugar industry to assure sterile conditions in diffusion and to decolourise thin juices.  
In water desalting plants with reverse osmosis for removing the excess of chlorine and for membrane preservation.  
In drinking water treatment, in order to remove the excess of chlorine.  
In starch production as bacteriostatic.  
In chemical synthesis, in the purification of aldehydes and ketones, as a catalyst, in the production of sulphonates, pesticides and herbicides, etc.  
In textile and pulp & paper industry: as bleaching agent, and for removing of excess of chlorine and peroxides.  
In steam boiler treatment to remove dissolved oxygen.

FOR HANDLING INFORMATION PLEASE CONSULT THE SAFETY DATA SHEET.

Product: SODIUM BISULPHITE SOLUTION HP 20% SO<sub>2</sub>  
Document Reference: PS 25P

Issue No. 13

Issue Date: Aug 2023  
Page 1 of 1

Information provided on this Technical Data Sheet is believed to be accurate and is given in good faith, but it is for the Customer to satisfy itself of the suitability of the Product for its own particular purpose. Accordingly, Esseco UK Limited gives no warranty as to the fitness of the Product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that such exclusion is prevented by law. Freedom under Patent, Copyright and Designs cannot be assumed.

**ESSECO UK LIMITED**, Calder Vale Road, Wakefield, West Yorkshire, WF1 5PH, England, UK  
Tel +44 (0) 1924 371 919, Fax +44 (0) 1924 290 408, [www.essecouk.com](http://www.essecouk.com)