



# POTASSIUM METABISULPHITE

## PHYSICO-CHEMICAL CHARACTERISTICS

Formula	: K <sub>2</sub> S <sub>2</sub> O <sub>5</sub>								
Molecular weight	: 222.33								
Synonyms	: Potassium bisulphite anhydrous, potassium pyrosulphite, potassium disulphite.								
Specific gravity	: 1.0-1.3 kg/dm <sup>3</sup> approx.								
Water solubility	: increases with the temperature according to the following table:								
	t °C	10	20	30	40	50	60	70	80
	g K <sub>2</sub> S <sub>2</sub> O <sub>5</sub> /100 g soln	26.3	31.0	35.3	39.0	42.7	46.2	49.3	51.9

## QUALITATIVE CHARACTERISTICS

Appearance of the product white crystalline powder, with slight odour of sulphur dioxide

Assay	% $K_2S_2O_5$	> 97.2
	% $SO_2$	> 56
Sulphate	% $K_2SO_4$	< 2.8
pH (20°C, 10%)		4.0-4.6
Thiosulphate	% $S_2O_3$	< 0.05
Iron	mg/kg as Fe	< 5
Heavy metals	mg/kg as Pb	< 5
Selenium	mg/kg as Se	< 2
Arsenic	mg/kg as As	< 2
Lead	mg/kg as Pb	< 2
Mercury	mg/kg as Hg	< 1

The product complies specifications of: Regulation EU 231/2012 (food additives) and FCC XIII (2022)

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

## STANDARD PACKAGING

25 kg polyethylene bags

## STORAGE

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

## MAIN USES

In the photographic industry as component of developer bath.

In food industry as additive (E224) preservative, antioxidant and antimicrobial for fruits (dried, glazed and candied), vegetables (onions, potatoes, etc.), juices (citrus and grapes) and fish (shrimps and prawns).

In chemical synthesis in the production of vitamins, pharmaceutical intermediates, etc.

FOR HANDLING INFORMATION PLEASE CONSULT THE SAFETY DATA SHEET.

THIS TECHNICAL DATA SHEET IS IDENTIFIED AS **KPS 1 (1023) E9**