

Technical Data Sheet

Product Name:

Potassium hydrogen sulfate (Potassium bisulfate) – Analytical Reagent (AR) Grade

Chemical Information

Chemical Formula	KHSO ₄
Molecular Weight	136.17 g/mol
CAS Number	7646-93-7
Synonyms	Potassium bisulfate, Potassium acid sulfate

Specifications

S. No.	Test	Unit	Specification
1	Appearance	-	White crystalline powder
2	Assay	%	Min. 99.0
3	Insoluble matter	%	Max. 0.003
4	Chloride (Cl)	%	Max. 0.0005
5	Phosphate (PO ₄)	%	Max. 0.001
6	Total nitrogen (N)	%	Max. 0.001
7	Heavy metals (as Pb)	%	Max. 0.0005
8	Aluminum (Al)	%	Max. 0.002
9	Calcium (Ca)	%	Max. 0.005
10	Iron (Fe)	%	Max. 0.0005
11	Sodium (Na)	%	Max. 0.02

Description

Potassium hydrogen sulfate is a white crystalline solid with acidic properties. It is highly soluble in water and used extensively in laboratories due to its purity and reactivity under controlled conditions.

Applications

- Analytical Chemistry: Used as a disintegrating agent to break down complex matrices in sample preparation.
- Dehydrating Agent: Useful in organic synthesis and fusion digestion processes.

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Storage & Handling

- Store in a tightly closed container, in a cool, dry, and well-ventilated area.
- Protect from moisture and incompatible materials such as strong bases and oxidizing agents.
- Handle using protective gloves and eyewear.

Packaging

Available in 25 kg containers or HDPE bags as per requirement.

Shelf Life

5 years from the date of manufacture, if stored in recommended conditions.

Safety Information

- Hazard Class: Irritant
- Precautionary Measures: Avoid inhalation, ingestion, and contact with skin or eyes.
- First Aid: In case of contact, wash affected area with plenty of water. Seek medical attention if irritation persists.