



Indroduction

Potassium stannate is a chemical compound with the formula K_2SnO_3 . It is a salt that contains potassium (K) cations and stannate (SnO_3^{2-}) anions. Potassium stannate can exist in different forms, and it is used in various industrial applications. Here are some key aspects of potassium stannate:





Glass Manufacturing	Potassium stannate is primarily used in the glass industry as a refining agent and decolorizing agent. It helps to remove impurities and discolorations from glass, improving its clarity and transparency. This makes it valuable in the production of high-quality glass products such as optical lenses, glassware, and display screens.
Ceramics	In ceramic manufacturing, potassium stannate can be used as a fluxing agent to lower the melting point of ceramic materials and improve their properties during firing. It aids in the production of ceramic glazes and enamels.
Electroplating	Like sodium stannate, potassium stannate can be used as a source of stannous ions in electroplating processes. It is added to electroplating baths to deposit a layer of tin onto the surface of metals, providing corrosion resistance and improved aesthetics.
Catalysis	In some chemical reactions, potassium stannate can serve as a catalyst or co-catalyst. It may be used in certain organic synthesis reactions.
	Potassium stannate is sometimes used as a reagent in analytical chemistry for specific

Analytical Chemistry

tests and analyses, though its use is less common than other chemicals for this purpose.

Chemical formula	K ₂ SnO ₃ ·3H ₂ O
CAS No.	12125-03-0
Molecular Weight	298.95 Gm/mol

APPEARANCE

1	White Powder
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STANDARD SPECIFICATION

No.	Parameters	Our Standard
1	Sn Percentage	39.00 % Min
2	Water Insoluble matter	< 500 ppm
3	Free Alkali %	< 1.5%
4	Chloride(Cl)	< 500 ppm
5	Sulfate (SO ₄ ²⁻)	< 200 ppm
6	Nitrate(NO ₃ ⁻)	< 500 ppm
7	Metal Impurities	< 100 ppm

Solubility in Water at 110.5g/100mL(150C)

PACKING

1	25/50 Kg Drum Packaging
2	As Per Buyer's Requirement

APPLICATION

1	Replace Silver with Tin in Electroplating Process
2	Alkaline Tin Plating Industries
3	Weighting agent in textile Industries