

THIOUREA DIOXIDE

Chemical Name: Thiourea Dioxide

Synonyms: Formamidine Sulfinite Acid, Aminoiminomethanesulphinic Acid, Methanesulfinic acid

Chemical Formula: CH₄N₂O₂S

CAS #: 1758-73-2

EINECS #: 217-157-8

HS Code: 2930909099

Molecular Weight: 108.12

Structure Formula:

$$\begin{array}{c} \text{O}=\text{S}-\text{OH} \\ | \\ \text{H}_2\text{N}-\text{C}=\text{NH} \end{array}$$

Specification

Item	Standard Specifications
Appearance	White crystal powder
Purity	99.0% Min
Thiourea Residual	0.10% Max
Sulphate	0.17% Max
Moisture	0.05% Max
Iron	0.001% Max
Quality Stability	Stable at 80℃ for 2 hours

Properties:

Thiourea Dioxide is an odorless white powder, a stable compound without oxidizability and reducibility. Solubility in water 26.7g/l at 20℃, saturated aqueous solution pH5.0. Thiourea Dioxide is very stable even in 20-30℃ aqueous solution, but it decomposes gradually to form sulfinic acid under heat and alkali conditions.



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Application:

Thiourea Dioxide is mainly used in dyeing industry, pulp industry, organic synthesis in synthetic fiber industry, as well as an additive in polymerization, stabilizer for polythene, sensitizer of photographic emulsion and so on. Thiourea Dioxide has the advantages of safe handling and storage, high redox potential and efficiency.

Packing:

25 kg net kraft paper bag / plastic woven bag

50kg fiber drum

80 / 500 / 1000 kg jumbo bag.

Storage and Handling:

Keep Thiourea Dioxide in a cool, dry and ventilated place. Avoid damp, insolation and rain. Keep away from heat, sparks, flames, alkalis or oxidizing agents.