

Copper (II) sulphate anhydrous

Meets USP-NF, EP and BP testing specifications

Product Code: TC609M

Product Description :

Molecular weight: 159.61

Molecular formula: CuSO_4

CAS No.: 7758-98-7

Synonym : Cupric sulphate anhydrous

Quality Control:

Appearance (EP, BP)

Greenish-grey powder, very hygroscopic

Appearance (USP)

A white or grayish-white powder.

Solubility (EP, BP)

Freely soluble in water, slightly soluble in methanol, practically insoluble in ethanol (96%)

Solubility (USP)

Soluble in water; Insoluble in alcohol

Identification A : Sulfate (USP)

Meets the requirements

Identification A (EP, BP)

Complies

Identification B : Copper (USP)

Meets the requirements

Identification B : Loss on drying (EP, BP)

$\leq 1.00\%$ (at 240 - 260°C, till constant weight)

Identification C : Sulfates (EP, BP)

0.64% solution gives reaction (a) of sulfates

Limit of sodium : (USP)

$\leq 0.02\%$

Appearance of solution (EP, BP)

3.20% solution in water is clear

Chloride (EP, BP)

$\leq 0.015\%$

Iron : (EP, BP)

$\leq 0.015\%$

Lead : (EP, BP)

$\leq 0.0080\%$

Limit of potassium : (USP)

$\leq 0.010\%$

Limit of Calcium : (USP)

$\leq 0.0050\%$

Limit of Iron : (USP)

$\leq 0.003\%$

Limit of Nickel : (USP)

$\leq 0.005\%$

Loss on drying : (USP)

$\leq 1.00\%$ (at 250°C to constant weight)

Loss on drying (EP, BP)

$\leq 1.00\%$ (at 240 - 260°C, to constant weight)

Assay (Iodometry, on dried basis) : (USP)

98.50 - 100.50%

Assay (Iodometry, dried substance) : (EP, BP)

99.00 - 101.00%

Storage and Shelf Life:

Store below 30°C away from bright light.

Shelf life is 48 months.

Use before expiry date given on the product label.

Revision: 02/2023

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