

Zinc sulfate heptahydrate

Meets USP 41-NF 36, EP 9.0, JP 17, BP 2016 and IP 2018 testing specifications

Product Code: TC131M

Product Description :

Molecular weight: 287.56

Molecular formula: $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$

CAS No.: 7446-20-0

Quality Control:

Appearance (EP, BP)

White or almost white crystalline powder or colourless, transparent crystals, efflorescent

Appearance (JP)

Colourless crystals or a white crystalline powder

Appearance (IP)

Colourless, transparent crystals or a white crystalline powder

Solubility (EP, BP)

Very soluble in water, practically insoluble in ethanol (96%)

Solubility (JP)

It is very soluble in water and very slightly soluble in ethanol (95.5%)

pH (5% in water at 25°C) (JP)

4.40 - 6.00

pH (5% in water at 25°C) (EP, BP, IP)

4.40 - 5.60

Identification (IP)

Reactions for zinc salts and sulphates

Identification 1 (JP)

Reactions for zinc

Identification 2 (JP)

Reactions for sulphate

Identification A (USP)

Reactions for zinc

Identification A (EP, BP)

Reactions for sulphate

Identification B (USP)

Reactions for sulphate

Identification B (EP, BP)

Reactions for zinc

Identification C (EP, BP)

It complies with the limits of the assay

Appearance of solution (EP, BP, JP, IP)

5% w/v solution is clear and colourless.

Arsenic (USP)

$\leq 0.0014\%$

Arsenic (JP)

$\leq 0.0002\%$

Arsenic (IP)

$\leq 0.001\%$

Iron (EP, BP)

$\leq 0.01\%$

Chloride (EP, BP)

$\leq 0.03\%$

Chloride (IP)

$\leq 0.025\%$

Heavy metals (JP)

$\leq 0.001\%$

Lead (USP)

$\leq 0.002\%$

Acidity (USP)

The sample solution is not coloured pink by methyl orange TS

Alkali earth metals & alkali metals (USP, JP)

$\leq 5.0 \text{ mg}$

Loss on drying (JP)

35.5 - 38.50% (at 105°C, 3hr)

Assay (EDTA Titration) (JP)

99.00 - 102.00%

Assay (EDTA Titration) (EP, BP, IP)

99.00 - 104.00%

Assay (EDTA Titration) (USP)

99.00 - 108.70%

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: 02/2021

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