

Zinc chloride anhydrous

Meets USP-NF, EP, BP, JP and IP testing specifications

Product Code: TC184M

Product Description :

Molecular weight: 136.3

Molecular formula: ZnCl_2

CAS No.: 7646-85-7

Quality Control:

Appearance : (USP)

White or practically white crystalline powder or white or practically white crystalline granules white or practically granules. May also be in porcelain-like masses or molded into cylinders. Is very deliquescent.

Appearance : (EP, BP)

White or almost white crystalline powder, or cast in white or almost white sticks, deliquescent

Appearance : (JP)

White crystalline powder, rods or masses

Appearance : (IP)

A White or practically white crystalline powder, very deliquescent

Solubility : (USP)

Very soluble in water, freely soluble in alcohol and in glycerin. It's solution in water or in alcohol is usually slight turbid, but the turbidity disappears when a small quantity of hydrochloric acid is added

Solubility : (EP, BP)

Very soluble in water, freely soluble in ethanol (96%) and in glycerol

Solubility : (JP)

It is very soluble in water and freely soluble in ethanol (95%), and it's solution may sometime be slightly turbid. The solution become clear on addition of a small amount of hydrochloric acid.

Solubility : (IP)

Very soluble in water, freely soluble in ethanol (95%) and in glycerin

pH : (EP, BP)

4.60 - 5.50 (1.0 gm in 9 ml of water, ignoring any slight turbidity)

pH : (50% in water) : (JP)

3.30 -5.30

pH : (IP)

4.6 - 6.0 (1.0 gm in 9 ml of freshly boiled and cooled water, ignoring any slight turbidity)

Identification : (JP)

Reactions for zinc salt and chloride

Identification A, Zinc : (USP, IP)

Gives reaction for zinc

Identification A, Chloride : (EP, BP)

Gives reaction for chloride

Identification B, Chloride : (USP, IP)

Gives reaction for chloride

Identification B, Zinc : (EP, BP)

Gives reaction for zinc

Clarity & colour of solution : (JP)

10% solution of ZnCl_2 + 2 drops of hydrochloric acid has no colour and is clear

Oxychloride : (USP, JP)

The solution become perfectly clear

Oxychloride : (EP, BP, IP)

The solution may become cloudy within 10 min., any cloudiness disappears on addition of 0.2 mL of dilute hydrochloric acid R

Sulphate : (USP)

$\leq 0.03\%$

Sulphate : (EP, BP, IP)

$\leq 0.02\%$

Sulphate : (JP)

$\leq 0.01\%$

Ammonium salts : (USP, IP)

No odour of ammonia is perceptible

Ammonium : (EP, BP)

≤ 0.04%

Ammonium : (JP)

The evolving gas does not change moistened red litmus paper to blue

Arsenic : (JP)

≤ 0.0005%

Heavy metals : (JP)

≤ 0.005%

Lead : (USP)

≤ 0.005%

Alkalies & alkaline earth : (USP, JP)

≤ 1.0% (The weight of the residue is NMT 10 mg)

Aluminium, calcium, iron, magnesium : (EP, BP)

A white precipitate is formed and the supernatant remains colourless

Aluminium, calcium, iron, magnesium, heavy metals : (IP)

A white precipitate is formed and the supernatant remains colourless

Assay (EDTA Titration) : (USP)

97.00 -100.50

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

95.00 -100.50

Assay (EDTA Titration) : (JP)

min.97.00%

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 : 06/2024

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