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Technical Datasheet

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 ZnCl2 + 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)
<= 0.03%

Sulphate : (EP, BP, IP)
<= 0.02%

Sulphate : (JP)
<= 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