

Aluminium potassium sulphate dodecahydrate

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

Product Code: TC552M

Product Description :

Molecular weight: 474.39

Molecular formula: $\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$

CAS No.: 7784-24-9

Synonym : Potassium alum dodecahydrate

Quality Control:

Appearance (USP)

Large, colorless crystals, crystalline fragments, or white powder

Appearance (EP, BP)

Granular powder or colourless, transparent, crystalline masses

Appearance (JP)

Colourless or white crystals or powder

Solubility (USP)

Very soluble in boiling water. Freely soluble in water and in glycerin; insoluble in alcohol

Solubility (EP, BP)

Freely soluble in water, very soluble in boiling water, soluble in glycerol, practically insoluble in ethanol (96 %).

Solubility (JP)

Freely soluble in water, and practically insoluble in ethanol (95%) and in diethyl ether

Identification A : (USP)

A precipitate is formed that dissolves in an excess of the reagent

Identification A : (EP, BP)

Gives the reaction of sulfates

Identification : (JP)

Complies

Identification B : (USP)

A violet color is imparted to the flame

Identification B : (EP, BP)

Solution S gives the reaction of aluminium

Identification C : (USP)

A white crystalline precipitate is formed within 30 min

Identification C : (EP, BP)

The filtrate gives reaction (a) of potassium

Identification D : (USP)

Meets the requirements

Appearance of solution : (EP, BP)

5% solution in water is clear and colourless

pH (10% in water at 25°C) : (EP, BP)

3.00 -3.50

Ammonium : (EP, BP)

$\leq 0.20\%$

Iron (EP, BP)

$\leq 0.01\%$

Iron (USP)

No blue colour is produced immediately

Iron (JP)

$\leq 0.0020\%$

Heavy metals (USP, BP, JP)

$\leq 0.0020\%$

Arsenic : (JP)

$\leq 0.00033\%$

Loss on drying : (USP)

43.00 - 46.00% (at 200°, increase the temperature to 400° and dry at 400° to constant weight)

Assay (EDTA-Back Titration, dried basis)

99.00 -100.50%

Assay (EDTA Titration) : (EP, BP)

99.00 -100.50%

Assay (EDTA-Back Titration) : (JP)

min. 99.50 %

Storage and Shelf Life:

Store at 10-30°C away from bright light

Shelf life is 48 months

Use before expiry date given on the product label

Disclaimer :

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