



Sodium acetate trihydrate

Meets USP-NF, EP, BP, JP and IP testing specifications Product Code: TC456M

Product Description :

Molecular weight: 136.08 Molecular formula: C₂H₃O₂Na.3H₂O CAS No.: 6131-90-4

Quality Control:

Appearance (USP) Colorless, transparent crystals, or white, granular crystalline powder, or white flakes Appearance (EP, BP)

White or almost white, crystalline powder or colourless crystals

Appearance (JP, IP)

Colorless crystals or a white crystalline powder. **Solubility (USP)**

Very soluble in water, soluble in alcohol

Solubility (EP, BP)

Very soluble in water, soluble in ethanol (96%) **Solubility (JP)**

Very soluble in water, freely soluble in acetic acid (100%), soluble in ethanol (95%), and practically insoluble in diethyl ether

Solubility (IP)

Very soluble in water, soluble in ethanol (95%)

Identification A : Sodium (USP)

Meets the requirements

Identification : Acetate and sodium salt (JP) 10% solution in water responds to the qualitative test for

acetate and sodium salt

Identification : (IP)

1 mL of 10% solution in water gives reaction (B) of acetate and reaction (A) of sodium salts

Identification A : Acetate (EP, BP) 1 mL of 10% solution gives reaction (b)of acetate **Identification B** : Sodium (EP, BP) 1 mL of 10% solution gives reaction (a) of sodium Identification B : Acetate (USP) Meets the requirements in test A Identification C : Loss on drying (EP, BP) 39.00 - 40.50% (at 130°C to constant weight) pH (3% in water) : (USP) 7.50 - 9.20 pH (5% in water) : (EP, BP, IP) 7.50 - 9.00 Appearance of solution (EP, BP, IP) 10% solution in water is clear and colorless Clarity and color of solution (JP) 10% solution in water is clear and colorless Acidity or alkalinity (JP) In the 5% solution add 3 drops of phenolphthalein TS : a red color develops or 1.0 mL of 0.01M HCl is added after cooling to 10°C : the red colour disappears Chloride (EP, BP) <= 0.02%Chloride (JP) <= 0.011%Chloride (USP) <= 0.035% Chloride (IP) <= 0.025%Sulfates (EP, BP, IP) <= 0.02%

Sulfate (JP) $\leq 0.017\%$ Sulfate (USP) <= 0.005% **Insoluble matter (USP)** <= 0.05% Heavy metals (JP) <= 0.0010% Heavy metals (IP) <= 0.00010% Calcium and magnesium (USP) No turbidity is produced within 5 min. Calcium and magnesium (EP, BP, IP) <= 0.0050% as Ca Calcium and magnesium (JP) Complies Arsenic (EP, BP, JP, IP) $\leq 0.0002\%$ Aluminium (IP) <= 0.00002% Iron (EP, BP) $\leq 0.0010\%$ Iron (IP) <= 0.0020% **Reducing substances (IP)** The pink color is not completely discharged Reducing substances (EP, BP) The pink colour persists for at least 1 hr Potassium (USP) No precipitate is formed Potassium permanganate - reducing substance (JP) The red color of the solution does not disappear Loss on drying (JP) 39.00 - 45.50% (at 80°C for 2 hr, then at 130°C for 2 hr) Loss on drying (USP) 38.00 - 41.00% (at 120°C to constant weight) Loss on drying (EP, BP, IP) 39.00 - 40.50% (at 130°C to constant weight)

Disclaimer :

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Plot No. C40, Road No. 21Y, MIDC, Wagle Industrial Area, Thane (West) 400604, Maharashtra, India.Tel No.022-69034800 Email: atc@himedialabs.com Website: www.himedialabs.com.

Assay (NT, on dried basis) : (EP, BP, USP, IP) 99.00 - 101.00% Assay (NT, on dried basis) : (JP) >= 99.50%

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.