

di-Sodium hydrogen phosphate dihydrate

Meets USP-NF, EP and BP testing specifications

Product Code: TC507M

Product Description :

Molecular weight: 177.99

Molecular formula : $\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$

CAS No.: 10028-24-7

Quality Control:

Appearance (BP, EP)

White or almost white powder or colourless crystals

Solubility (BP, EP)

Soluble in water, Practically insoluble in ethanol (96%)

Identification A (USP)

Reaction for sodium

Identification A (BP, EP)

5% solution in water is slightly alkaline

Identification B (USP)

Reactions for phosphate

Identification B (BP, EP)

Loss on drying : 19.5 - 21.0% (at 130°C, 2hr)

Identification C (BP, EP)

Reactions for phosphate

Identification D (BP, EP)

Reaction for sodium

Appearance of solution (BP, EP)

5% solution in water is clear and colourless.

Insoluble substances (USP)

$\leq 0.4\%$

Arsenic (USP)

$\leq 0.0016\%$

Arsenic (EP, BP)

$\leq 0.0004\%$

Reducing substances (EP, BP)

The colour of the permanganate is not completely discharged

Monosodium phosphate (EP, BP)

$\leq 2.5\%$

Chloride (USP)

$\leq 0.06\%$

Chloride (EP, BP)

$\leq 0.04\%$

Iron (EP, BP)

$\leq 0.004\%$

Sulphate (USP)

$\leq 0.2\%$

Sulphate (EP, BP)

$\leq 0.1\%$

Loss on drying (USP)

18.50 - 21.50% (at 130°C, 2hr)

Loss on drying (EP, BP)

19.50 - 21.00% (at 130°C, 2hr)

Assay (NaOH T, dried basis) (USP)

98.00 - 100.50%

Assay (HCl Back T, dried basis) (EP, BP)

98.00 - 101.00%

Storage and Shelf Life:

Store below 30°C.

Shelf life is 48 months.

Use before expiry date given on the product label.

Disclaimer :

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