



di-Sodium hydrogen phosphate anhydrous

Meets USP-NF, EP and BP testing specifications

Product Code: TC051M

Product Description :

Molecular weight: 141.96
Molecular formula: Na_2HPO_4
CAS No.: 7558-79-4

Quality Control:

Appearance (USP)

White powder that readily absorb moisture

Appearance (EP, BP)

White or almost white powder, hygroscopic

Solubility (USP)

Freely soluble in water; insoluble in alcohol

Solubility (EP, BP)

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

Appearance of solution (EP, BP)

5% solution in water is clear and colourless

Identification A (USP)

Reactions for sodium

Identification A (EP, BP)

5% solution in water is slightly alkaline

Identification B (USP)

Reactions for phosphate

Identification B : LOD (EP, BP)

$\leq 1.0\%$ (at 105°C , 4hr)

Identification C (EP, BP)

5% solution in water gives reaction (b) of phosphate

Identification D (EP, BP)

5% solution in water gives reaction (a) of sodium

Arsenic (USP)

$\leq 0.0016\%$

Arsenic (EP, BP)

$\leq 0.0002\%$

Chloride (USP)

$\leq 0.06\%$

Chloride (EP, BP)

$\leq 0.02\%$

Iron (EP, BP)

$\leq 0.002\%$

Sulphate (USP)

$\leq 0.2\%$

Sulphate (EP, BP)

$\leq 0.05\%$

Reducing substances (EP, BP)

The colour of the permanganate is not completely discharged

Insoluble substances (USP)

$\leq 0.4\%$

Monosodium phosphate (EP, BP)

$\leq 2.5\%$

Loss on drying : (at 130°C , 2hr) (USP)

$\leq 5.00\%$

Loss on drying (at 105°C , 4hr) (EP, BP)

$\leq 1.00\%$

Assay (NaOH T, dried basis) (USP)

98.00 - 100.50%

Assay (NaOH T, dried substance) (EP, BP)

98.00 - 101.00%

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 : 05/2023

Disclaimer :

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