

EDTA disodium salt dihydrate

Meets USP-NF, EP, BP and IP testing specifications

Product Code: TC038M

Product Description :

Molecular weight : 372.24

Molecular formula: $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$

CAS No.: 6381-92-6

Quality Control:

Appearance (USP, IP)

White crystalline powder

Appearance (EP, BP)

White or almost white crystalline powder

Solubility (USP)

Soluble in water

Solubility (EP, BP)

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

Solubility (IP)

Soluble in water, practically insoluble in ethanol (95%)

pH (USP)

4.00 - 6.00 (5% in water at 25°C)

pH (EP, BP, IP)

4.00 - 5.50 (5% in water at 25°C)

Identification A : FTIR (USP, EP, BP, IP)

Matches with the standard pattern

Identification B (USP)

The red colour is discharged, leaving a yellowish solution

Identification B (EP, BP, IP)

No precipitate is formed

Identification C (USP)

Reactions for sodium

Identification C (EP, BP, IP)

No precipitate is formed

Identification D (EP, BP, IP)

Reactions for sodium

Appearance of solution (EP, BP, IP)

5% Solution in water is clear and colourless.

Heavy metals (IP)

$\leq 0.002\%$

Iron (EP, BP, IP)

$\leq 0.008\%$

Calcium (USP)

No precipitate is formed

System suitability, Impurity A: HPLC : Resolution (EP, BP, IP)

≥ 7 , between the peaks due to the iron complex of impurity A and the iron complex of edetic acid

Impurity A : HPLC (EP, BP, IP)

$\leq 0.1\%$

System suitability 1, Limit of nitriloacetic acid, HPLC: Resolution (USP)

≥ 3 , between nitrilotriacetic acid and copper

System suitability 2, Limit of nitriloacetic acid, HPLC : Relative standard deviation (USP)

$\leq 2.0\%$

Limit of nitriloacetic acid : HPLC (USP)

$\leq 0.1\%$

Loss on drying (at 150°C, 6 hr) (USP)

8.70 - 11.40%

Assay (Complexometric T, on dried basis) (USP)

99.00 - 101.00%

Assay (Pb(NO₃)₂ Titration) (EP, BP, IP)

98.50 - 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.

Disclaimer :

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Revision : 07/2023