

# Sodium sulfate anhydrous

Meets USP-NF, EP and BP testing specification

**Product Code: TC572M**

## Product Description :

Molecular weight: 142.04

Molecular formula:  $\text{Na}_2\text{SO}_4$

CAS No.: 7757-82-6

## Quality Control:

### Appearance (USP)

Large colourless, odourless, transparent crystals or a granular powder

### Appearance (EP, BP)

White or almost white powder, hygroscopic

### Solubility (USP)

Freely soluble in water, soluble in glycerin, insoluble in alcohol

### Solubility (EP, BP)

Freely soluble in water

### Identification (USP)

Reactions for sodium and sulfate

### Identification A (EP, BP)

Reactions for sulfate

### Identification B (EP, BP)

Reactions for sodium

### Identification C, LOD (EP, BP)

$\leq 0.5\%$  (at  $130^\circ\text{C}$ , 2hr)

### Appearance of solution (EP, BP)

2.2% solution in water is clear and colourless.

### Acidity or alkalinity (USP, EP, BP)

$\leq 0.5$  mL of 0.01M HCl or 0.01M NaOH is required to change the colour of the indicator

### Chloride (EP, BP)

$\leq 0.045\%$

### Iron (EP, BP)

$\leq 0.009\%$

### Calcium (EP, BP)

$\leq 0.045\%$

### Magnesium (EP, BP)

$\leq 0.02\%$

### Loss on drying (USP)

$\leq 0.5\%$  (at  $105^\circ\text{C}$ , 4hr)

### Loss on drying (EP, BP)

$\leq 0.5\%$  (at  $130^\circ\text{C}$ , 2hr)

### Assay (Gravimetry, dried basis) (USP)

min. 99.00%

### Assay (Cation exchange T, dried substance) (EP, BP)

98.5 - 101.0%

## Storage and Shelf Life:

Store below  $30^\circ\text{C}$ .

Shelf life is 48 months.

Use before expiry date given on the product label.

Revision : 03/2023

## Disclaimer :

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