

# Potassium dihydrogen phosphate anhydrous

Meets USP 41-NF 36, EP 9.0 and BP 2016 testing specifications

**Product Code: TC011M**

## Product Description :

Molecular weight: 136.09

Molecular formula:  $\text{KH}_2\text{PO}_4$

CAS No.: 7778-77-0

Synonyms: Monobasic Potassium phosphate

## Quality Control:

### Appearance (EP, BP)

White or almost white crystalline powder or colourless crystals

### Solubility (EP, BP)

Freely soluble in water, practically insoluble in ethanol (96%)

### pH (c = 10% in water at 25°C) (EP, BP)

4.20 - 4.50

### Identification A (USP)

Reactions for potassium

### Identification A (EP, BP)

10% in water is faintly acid

### Identification B (USP)

Reactions for phosphate

### Identification B (EP, BP)

Reactions for phosphate

### Identification C (EP, BP)

Reactions for potassium

### Appearance of solution (EP, BP)

Solution is clear and colourless.

### Insoluble substances (USP)

$\leq 0.2\%$

### Arsenic (USP)

$\leq 0.0003\%$

### Arsenic (EP, BP)

$\leq 0.0002\%$

### Chloride (EP, BP)

$\leq 0.02\%$

### Heavy metals (USP)

$\leq 0.002\%$

### Iron (EP, BP)

$\leq 0.001\%$

### Sulphate (EP, BP)

$\leq 0.03\%$

### Fluoride (USP)

$\leq 0.001\%$

### Reducing substances (EP, BP)

Passes test

### Sodium (EP, BP)

$\leq 0.10\%$

### Lead (USP)

$\leq 0.0005\%$

### Loss on drying (at 105°, 4hr) (USP)

$\leq 1.00\%$

### Loss on drying (at 125 - 130°C) (EP, BP)

$\leq 2.00\%$

### Assay (NaOH T, on dry basis) (USP)

98.00 - 100.50%

### Assay (NaOH T, on dry basis) (EP, BP)

98.00 - 100.50%

## Storage and Shelf Life:

Store below 30°C.

Shelf life is 48 months.

Use before expiry date given on the product label.

Revision: 02/2022

### Disclaimer :

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