

Potassium dihydrogen phosphate anhydrous

Cell Culture Tested

Product Code: TC011

Product Description :

Molecular Weight: 136.09

Molecular Formula: KH_2PO_4

CAS No.: 7778-77-0

Synonym: Potassium phosphate monobasic,
Monopotassium phosphate

Potassium dihydrogen phosphate is a widely used biological buffer with very high buffering capacity. It has pK_a^* of 2.12, 7.21 and 12.32 at 20°C.

In cell culture applications, potassium dihydrogen phosphate is used as a component of buffer solutions, animal cell culture media and insect cell culture media wherein it functions as a buffering system and serves as a source of phosphorus and potassium.

In addition to its use in cell culture systems, potassium dihydrogen phosphate is also used for preparation of neutral potassium phosphate buffer solutions. These solutions are used for molecular biology applications such as protein extraction and crystallization.

**Phosphoric acid has 3 pK_a values at 20°C*

Quality Control:

Appearance

White to yellowish white crystals or crystalline powder.

Solubility

Clear colorless solution at 10 gm in 100ml of water .

pH of 1% solution in water

4.00 -5.00

Assay

NLT 99.00%

Cell Culture Test

Passes

Storage and Shelf Life:

Store at 10°C-30°C.

Shelf life is 48 months.

Use before expiry date given on the product label.

Revision: 1 / 2013

Disclaimer :

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