

**Product Specification****POTASSIUM DIHYDROGEN ORTHOPHOSPHATE  
FOR MOLECULAR BIOLOGY**

<b>PRODUCT CODE</b>	<b>972100</b>
<b>SYNONYMS</b>	--
<b>C.I. NO.</b>	--
<b>CASR NO.</b>	(7778-77-0)
<b>ATOMIC OR MOLECULAR FORMULA</b>	$\text{KH}_2\text{PO}_4$
<b>ATOMIC OR MOLECULAR WEIGHT</b>	136.09
<b>PROPERTIES</b>	Insoluble in alcohol.

 **$\text{KH}_2\text{PO}_4$** 

<b>PARAMETER</b>	<b>LIMIT</b>
Description	White crystalline powder.
Solubility	10% solution in water is clear and colourless.
Minimum Assay (Acidimetric)	99.5%
pH of (5% solution in water)	4.3 – 4.5

**MAXIMUM LIMIT OF IMPURITIES**

Loss on drying (at 110°C)	0.2%
Absorbance (A 0.1M/1cm) in water at 260 nm	0.01
Absorbance (A 0.1M/1cm) in water at 280 nm	0.01
Insoluble matter	0.01%
Ammonium ( $\text{NH}_4$ )	0.0025%
Chloride (Cl)	0.0005%
Nitrate ( $\text{NO}_3$ )	0.001%
Sulphate ( $\text{SO}_4$ )	0.005%
Calcium (Ca)	0.01%
Heavy metals (as Pb)	0.0005%
Iron (Fe)	0.002%
Magnesium (Mg)	0.005%
DNase, RNase, Protease & Phosphatases	None detected

**Note(s) : Assay (if applicable) method mentioned.****WARNING****Hazard statements :** Causes eye irritation.**Precautionary statements****Prevention :** Wash thoroughly after handling.**Response :** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IMDG Code :

UN No. :

IATA :

**Disposal:** Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water**Hazard Pictogram(s) :--**