



# Product Specification

**Product Name:** **POTASSIUM DIHYDROGEN ORTHOPHOSPHATE  
Anhydrous AR**

**Alternate Name(s)** Monopotassium dihydrogen phosphate; potassium acid phosphate;  
Description potassium phosphate, monobasic; Sorensen's potassium phosphate;  
Colourless, odourless crystals. Slightly hygroscopic.

Properties

**Chemical Formula:**  $\text{KH}_2\text{PO}_4$   
**Molecular Weight:** 136.09

**Product Code:** PA009  
**CAS No.** 7778-77-0

General Information:

Insoluble in alcohol. Mildly corrosive to steel and aluminium. Incompatible with strong bases. Non combustible material.

Hazard and Safety Data

**UN Group:** None Allocated  
**Class:** None Allocated  
**UN Number:** None Allocated  
**Hazchem code:** None Allocated  
**CS MSDS Code:** 1CH5B  
**Poison schedule:** Not Scheduled  
**Emergency Procedure Guide No.:** N/A

Not classified as hazardous according to the criteria of ASCC.

Quality Specification

**Assay:** 99.0% min.

Specific Properties and Impurities [Typical levels]:

Melting Point	253°C
Specific Gravity	2.338
Solubility in Water	222 g/L (20°C)
pH of 5% solution at 25°C	4.1-4.5
Insoluble matter	≤ 0.01%
Loss on drying at 105°C	≤ 0.2%
Chloride (Cl)	≤ 0.001%
Sulfate (SO <sub>4</sub> )	≤ 0.003%
Heavy metals (as Pb)	≤ 0.001%
Iron (Fe)	≤ 0.002%
Sodium (Na)	≤ 0.005%

CONFORMS TO ACS

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