



SPÓŁDZIELNIA PRACY CHEMIKÓW

• **xenon** •

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POLAND

## QUALITY SPECIFICATION

# POTASSIUM DIHYDROGEN PHOSPHATE

**Chemical name:** Mono Potassium Orthophosphate  
**Formula:**  $\text{KH}_2\text{PO}_4$   
**Molecular mass:** 136,1  
**CAS number:** 7778-77-0

Test	Unit	Specification
Characters		White or almost white, crystalline powder, or colourless crystals
Solubility		Freely soluble in water, practically insoluble in ethanol.
Identification	Passes test	<b>conforming</b>
Appearance of solution	Passes test	<b>conforming</b>
pH of 5% solution		<b>4,2÷4,5</b>
Reducing substances	Passes test	<b>conforming</b>
Chlorides ( $\text{Cl}^-$ )	%	<b>≤0,02</b>
Sulphates ( $\text{SO}_4^{2-}$ )	%	<b>≤0,03</b>
Arsenic (As)	%	<b>≤0,0002</b>
Iron ( $\text{Fe}^{3+}$ )	%	<b>≤0,001</b>
Loss on drying (125°C)	%	<b>≤2,0</b>
Assay	%	<b>98,0÷100,5</b>
<b>TAMC</b> <i>(Total aerobic microbial count)</i>		<b>≤ 1000 CFU/1g</b>
<b>TYMC</b> <i>(Total combined yeasts and moulds count)</i>		<b>≤ 100 CFU/1g</b>
<b>Escherichia coli</b>		<b>absent in 1g</b>
<b>Bile-tolerant gram-negative bacteria</b>		<b>≤ 100 CFU/1g</b>

Valid from: 21.05.2020

**CONCLUSION:** This material complies with the requirements of the: European Pharmacopoeia.  
We hereby certify that this material is not manufactured using any material of animal origin, therefore it cannot be a source of BSE.