



# Specification

1.04871.0000 Potassium dihydrogen phosphate cryst., EMPROVE® ESSENTIAL Ph Eur,  
BP,JPC,NF,E 340

	Spec. Values	
Assay (alkalimetric, calculated on dried substance)	98.0 - 100.5	%
Assay (alkalimetric; dried substance)	≥ 99.0	%
Appearance of solution	passes test	
Identity	passes test	
Insoluble substances	≤ 0.2	%
pH-value (1 %; water)	4.2 - 4.8	
pH-value (2 %; water)	4.2 - 4.6	
pH-value (5 %; water)	4.2 - 4.5	
Carbonate	passes test	
Condensed phosphate	passes test	
Chloride (Cl)	≤ 0.009	%
Fluoride (F)	≤ 0.0010	%
Sulfate (SO <sub>4</sub> )	≤ 0.017	%
Heavy metals (as Pb)	≤ 0.0010	%
Al (Aluminium)	≤ 0.0005	%
As (Arsenic)	≤ 0.0001	%
Cd (Cadmium)	≤ 0.0001	%
Fe (Iron)	≤ 0.0010	%
Hg (Mercury)	≤ 0.0001	%
Na (Sodium)	≤ 0.1	%
Na (Sodium)	passes test	
Pb (Lead)	≤ 0.0001	%
Sb (Antimony) (*)	≤ 0.0009	%
Residual solvents (ICH Q3C)	excluded by manufacturing process	
Reducing substances	passes test	
Loss on drying (105 °C)	≤ 0.5	%
Loss on drying (130 °C)	≤ 1.0	%

Elemental impurity specifications have been set considering ICH Q3D (Guideline for Elemental Impurities). Class 1-3 elements are not likely to be present above the ICH Q3D option 1 limit, unless specified and indicated (\*).

Corresponds to Ph Eur, BP, JPC, NF, E 340

Conforms to the purity criteria on food additives according to the current European Commission Regulation.

Kristin Haufschildt

Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.