



Certificate of Analysis

1.04871.9029 Potassium dihydrogen phosphate cryst., EMPROVE® ESSENTIAL Ph Eur,
BP, JPC, NF, E 340
Batch AM2057471

	Spec. Values		Batch Values	
Assay (alkalimetric, calculated on dried substance)	98.0 - 100.5	%	100.0	%
Assay (alkalimetric; dried substance)	≥ 99.0	%	99.9	%
Appearance of solution	passes test		passes test	
Identity	passes test		passes test	
Insoluble substances	≤ 0.2	%	≤ 0.2	%
pH-value (1 %; water)	4.2 - 4.8		4.4	
pH-value (2 %; water)	4.2 - 4.6		4.3	
pH-value (5 %; water)	4.2 - 4.5		4.2	
Carbonate	passes test		passes test	
Condensed phosphate	passes test		passes test	
Chloride (Cl)	≤ 0.009	%	≤ 0.009	%
Fluoride (F)	≤ 0.0010	%	≤ 0.0010	%
Sulfate (SO ₄)	≤ 0.017	%	≤ 0.017	%
Heavy metals (as Pb)	≤ 0.0010	%	≤ 0.0010	%
Al (Aluminium)	≤ 0.0005	%	≤ 0.0005	%
As (Arsenic)	≤ 0.0001	%	≤ 0.0001	%
Cd (Cadmium)	≤ 0.0001	%	≤ 0.0001	%
Fe (Iron)	≤ 0.0010	%	≤ 0.0010	%
Hg (Mercury)	≤ 0.0001	%	≤ 0.0001	%
Na (Sodium)	≤ 0.1	%	≤ 0.1	%
Na (Sodium)	passes test		passes test	
Pb (Lead)	≤ 0.0001	%	≤ 0.0001	%
Sb (Antimony) (*)	≤ 0.0009	%	< 0.00027	%
Residual solvents (ICH Q3C)	excluded by manufacturing process		excluded by manufacturing process	
Reducing substances	passes test		passes test	
Loss on drying (105 °C)	≤ 0.5	%	< 0.1	%
Loss on drying (130 °C)	≤ 1.0	%	< 0.1	%

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.

Date of manufacture (DD.MM.YYYY) 11.05.2024

Date of examination (DD.MM.YYYY) 25.06.2024

Minimum shelf life (DD.MM.YYYY) 31.05.2029

Kristin Haufschildt

Responsible laboratory manager quality control

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