



Specification

1.05061.0001 Potassium nitrate EMPROVE® ESSENTIAL Ph Eur,BP,USP,FCC,E 252

	Spec. Values	
Assay (alkalimetric)	99.0 - 100.5	%
Assay (alkalimetric, calculated on dried substance)	99.0 - 100.5	%
Identity	passes test	
Appearance of solution	passes test	
Acidity or alkalinity	passes test	
pH-value (5 %; water)	4.5 - 8.5	
Chloride (Cl)	≤ 0.001	%
Chlorate and Perchlorate (as Cl)	passes test	
Nitrite (NO ₂)	≤ 0.0005	%
Sulfate (SO ₄)	≤ 0.01	%
Heavy metals (as Pb)	≤ 0.001	%
Al (Aluminium)	≤ 0.0001	%
As (Arsenic)	≤ 0.0002	%
Ca (Calcium)	≤ 0.005	%
Cu (Copper)	≤ 0.001	%
Fe (Iron)	≤ 0.001	%
Mg (Magnesium)	≤ 0.001	%
Na (Sodium) Ph.Eur. / BP	≤ 0.1	%
Na (Sodium) USP	≤ 0.1	%
NH ₄ (Ammonium)	≤ 0.004	%
Hg (Mercury)	≤ 0.0001	%
Pb (Lead)	≤ 0.0002	%
Zn (Zinc)	≤ 0.001	%
Residual solvents (ICH Q3C)	excluded by manufacturing process	
Reducible substances	passes test	
Loss on Drying (105 °C)	≤ 0.5	%

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,USP,FCC,E 252

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

Claudia Wiegand

Responsible laboratory manager quality control

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