



Certificate of Analysis

1.06482.6025 Sodium hydroxide pellets EMPROVE® ESSENTIAL Ph Eur,BP,FCC,JP,NF,
E 524
Batch MB2277882

	Spec. Values		Batch Values	
Assay (acidimetric,NaOH)	≥ 98.0	%	99.4	%
Assay (total alkalinity calc. as NaOH)	98.0 - 100.5	%	99.6	%
Assay (Na)	54.0 - 59.8	%	57.8	%
Identity	passes test		passes test	
Appearance of solution	passes test		passes test	
Insoluble substances and organic matter	passes test		passes test	
Carbonate (as Na ₂ CO ₃)	≤ 0.5	%	0.2	%
Chloride (Cl)	≤ 0.015	%	≤ 0.015	%
Phosphate (PO ₄)	≤ 0.002	%	≤ 0.002	%
Silicate (SiO ₂)	≤ 0.01	%	≤ 0.01	%
Sulfate (SO ₄)	≤ 0.010	%	≤ 0.010	%
Total nitrogen (N)	≤ 0.0005	%	≤ 0.0005	%
Heavy metals (as Pb)	≤ 0.0005	%	≤ 0.0005	%
Al (Aluminium)	≤ 0.001	%	≤ 0.001	%
As (Arsenic)	≤ 0.0003	%	≤ 0.0003	%
Cu (Copper)	≤ 0.0005	%	≤ 0.0005	%
Fe (Iron)	≤ 0.0010	%	≤ 0.0010	%
Hg (Mercury)	≤ 0.00001	%	≤ 0.00001	%
K (Potassium)	≤ 0.1	%	0.020	%
Pb (Lead)	≤ 0.00005	%	< 0.00005	%
Zn (Zinc)	≤ 0.0025	%	≤ 0.0025	%
Residual solvents (Ph Eur/USP/ICH)	excluded by manufacturing process		excluded by manufacturing process	

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 (*).
Conforms to Ph Eur, BP, FCC, JP, NF, E524
Conforms to the purity criteria on food additives according to the current European Commission Regulation.

Date of manufacture (DD.MM.YYYY) 15.04.2024
Date of examination (DD.MM.YYYY) 07.05.2024
Minimum shelf life (DD.MM.YYYY) 30.04.2027

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Responsible laboratory manager quality control

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