



Certificate of Analysis

1.06482.0000 Sodium hydroxide pellets EMPROVE® ESSENTIAL Ph Eur,BP,FCC,ChP,
JP,NF,E 524
Batch MB2518982

	Spec. Values		Batch Values	
Assay (acidimetric,NaOH)	≥ 98.0	%	99.7	%
Assay (total alkalinity calc. as NaOH)	98.0 - 100.5	%	99.9	%
Assay (Na)	54.0 - 59.8	%	57.2	%
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	%	0.3	%
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 (ICH Q3C)	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, ChP, JP, NF, E524
Conforms to the purity criteria on food additives according to the current European Commission Regulation.

The original manufacturer name and address will be disclosed subsequent to signing a confidentiality agreement.

Date of manufacture (DD.MM.YYYY) 19.05.2025
Date of examination (DD.MM.YYYY) 05.06.2025
Minimum shelf life (DD.MM.YYYY) 31.05.2028

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Responsible laboratory manager quality control

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