



# Certificate of Analysis

1.06323.0000 Sodium hydrogen carbonate EMPROVE® ESSENTIAL Ph Eur, BP, ChP, JP,  
USP, FCC, E 500  
Batch K56716523

	Spec. Values		Batch Values	
Assay (acidimetric according to Ph Eur)	99.0 - 101.0	%	100.3	%
Assay (acidimetric according to JP)	99.0 - 101.0	%	100.1	%
Assay (acidimetric, calculated on dried substance according to ChP)	99.0 - 101.0	%	99.8	%
Assay (acidimetric; calculated on dried substance according to USP)	99.5 - 100.5	%	99.7	%
Identity	passes test		passes test	
Appearance of solution	passes test		passes test	
Insoluble matter	passes test		passes test	
pH-value (1 %, water)	8.0 - 8.6		8.3	
pH-value (5 %; water)	7.9 - 8.4		8.0	
Alkalinity	≤ 8.6		8.3	
Carbonate (CO <sub>3</sub> )	passes test		passes test	
Chloride (Cl)	≤ 0.0150	%	≤ 0.0150	%
Sulfate (SO <sub>4</sub> )	≤ 0.01	%	≤ 0.01	%
Sulfur compounds (as SO <sub>4</sub> )	≤ 0.015	%	≤ 0.015	%
Al (Aluminium)	≤ 0.00005	%	≤ 0.00005	%
As (Arsenic)	≤ 0.0001	%	≤ 0.0001	%
Ca (Calcium)	≤ 0.0100	%	≤ 0.0100	%
Cu (Copper)	≤ 0.0005	%	≤ 0.0005	%
Fe (Iron)	≤ 0.0010	%	≤ 0.0010	%
Hg (Mercury)	≤ 0.0001	%	≤ 0.0001	%
NH <sub>4</sub> (Ammonium)	≤ 0.0020	%	≤ 0.0020	%
NH <sub>4</sub> (Ammonium) according to ChP	passes test		passes test	
NH <sub>4</sub> (Ammonium) according to JP	passes test		passes test	
NH <sub>4</sub> (Ammonium) according to USP	≤ 0.0020	%	≤ 0.0020	%
Pb (Lead)	≤ 0.0002	%	≤ 0.0002	%
Zn (Zinc)	≤ 0.0025	%	≤ 0.0025	%
Heavy metals (as Pb)	≤ 0.0005	%	≤ 0.0005	%
Residual solvents (ICH Q3C)	excluded by production process		excluded by production process	
Loss on drying (Silica gel)	≤ 0.25	%	≤ 0.25	%

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, ChP, USP, FCC, JP, E 500

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.

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Date of manufacture (DD.MM.YYYY) 10.04.2025

Date of examination (DD.MM.YYYY) 04.06.2025

Minimum shelf life (DD.MM.YYYY) 30.04.2030

Kristin Starke

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Responsible laboratory manager quality control

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