



# Certificate of Analysis

1.05422.1000 Ammonia solution 25% EMPROVE® ESSENTIAL Ph Eur, BP  
Batch

	Spec. Values		Batch Values	
Assay (acidimetric, NH <sub>3</sub> )	25.0 - 30.0	%	27.0	%
Identity	passes test		passes test	
Appearance of solution	passes test		passes test	
Density (20/20°C)	0.892 - 0.910		0.902	
Carbonate (as CO <sub>2</sub> )	≤ 0.0060	%	< 0.0030	%
Chloride (Cl)	≤ 0.00010	%	< 0.00005	%
Sulfate (SO <sub>4</sub> )	≤ 0.0005	%	< 0.0002	%
Pyridine and related substances	≤ 0.0002	%	< 0.0002	%
Cu (Copper)	≤ 0.00005	%	< 0.00002	%
Fe (Iron)	≤ 0.000025	%	< 0.000010	%
Oxidizable substances	passes test		passes test	
Substances reducing potassium permanganate (as O)	≤ 0.00075	%	< 0.00075	%
Residual solvents (ICH Q3C)	...excluded by production process		...excluded by production process	
Evaporation residue	≤ 0.0018	%	< 0.0010	%
Residue on ignition (as SO <sub>4</sub> )	≤ 0.002	%	< 0.001	%

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

Date of manufacture (DD.MM.YYYY) 25.08.2023

Date of examination (DD.MM.YYYY) 12.09.2023

Minimum shelf life (DD.MM.YYYY) 31.08.2028

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Responsible laboratory manager quality control

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