

Specification

1.00312.0000 Hydrochloric acid 25% EMPROVE® ESSENTIAL Ph Helv

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	Specification		
Assay (alkalimetric)	24.5 - 25.5	%	
Identity	conforms		
Appearance of solution	passes test		
Density (d 20/20)	1.121 - 1.131		
Bromide, Iodide (Br,I)	passes test		
Free chlorine (Ph. Helv.)	passes test		
Free chlorine (CI)	≤ 0.0001	%	
Sulfate (SO ₄)	≤ 0.0005	%	
Sulfite (SO₃)	≤ 0.0010	%	
As (Arsenic)	≤ 0.00010	%	
Ca (Calcium)	≤ 0.0010	%	
Fe (Iron)	≤ 0.0001	%	
Hg (Mercury)	≤ 0.000040	%	
Mg (Magnesium)	≤ 0.0010	%	
Zn (Zinc)	≤ 0.0010	%	
Residual solvents (ICH Q3C)	excluded by production process		
Residue on ignition (as SO ₄)	≤ 0.002	%	
Evaporation residue	≤ 0.005	%	
Corresponds to Ph Helv			

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 (*). Minimum shelf life: see product label

Christian Herrmann

Responsible laboratory manager quality control

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