

Certificate of Analysis



1.05423.1000 Ammonia solution 28-30% for analysis EMSURE®
ACS,Reag. Ph Eur

Batch K43044523

	Spec. Values		Batch Values	
Assay (acidimetric, NH ₃)	28.0 - 30.0	%	29.2	%
Identity	passes test		passes test	
Appearance	passes test		passes test	
Appearance of solution	passes test		passes test	
Carbonate (as CO ₂)	≤ 10	ppm	< 10	ppm
Chloride (Cl)	≤ 0.3	ppm	< 0.3	ppm
Nitrate (NO ₃)	≤ 2	ppm	< 1.0	ppm
Phosphate (PO ₄)	≤ 0.5	ppm	< 0.5	ppm
Heavy metals (as Pb)	≤ 0.5	ppm	< 0.5	ppm
Silicate (as SiO ₂)	≤ 5	ppm	< 5	ppm
Sulphate (SO ₄)	≤ 2	ppm	< 2	ppm
Sulphide (S)	≤ 0.2	ppm	< 0.2	ppm
Ag (Silver)	≤ 0.020	ppm	< 0.010	ppm
Al (Aluminium)	≤ 0.500	ppm	< 0.200	ppm
Au (Gold)	≤ 0.100	ppm	< 0.020	ppm
Ba (Barium)	≤ 0.050	ppm	< 0.020	ppm
Bi (Bismuth)	≤ 0.100	ppm	< 0.050	ppm
Ca (Calcium)	≤ 0.500	ppm	< 0.200	ppm
Cd (Cadmium)	≤ 0.050	ppm	< 0.020	ppm
Co (Cobalt)	≤ 0.050	ppm	< 0.020	ppm
Cr (Chromium)	≤ 0.050	ppm	< 0.020	ppm
Cu (Copper)	≤ 0.100	ppm	< 0.020	ppm
Fe (Iron)	≤ 0.100	ppm	< 0.050	ppm
Ga (Gallium)	≤ 0.020	ppm	< 0.010	ppm
In (Indium)	≤ 0.020	ppm	< 0.020	ppm
K (Potassium)	≤ 0.500	ppm	< 0.200	ppm
Li (Lithium)	≤ 0.020	ppm	< 0.010	ppm
Mg (Magnesium)	≤ 0.100	ppm	< 0.050	ppm
Mn (Manganese)	≤ 0.050	ppm	< 0.020	ppm
Mo (Molybdenum)	≤ 0.050	ppm	< 0.020	ppm
Na (Sodium)	≤ 0.500	ppm	< 0.200	ppm
Ni (Nickel)	≤ 0.050	ppm	< 0.020	ppm
Pb (Lead)	≤ 0.050	ppm	< 0.020	ppm
Pt (Platinum)	≤ 0.100	ppm	< 0.020	ppm
Sn (Tin)	≤ 0.100	ppm	< 0.020	ppm
Sr (Strontium)	≤ 0.100	ppm	< 0.100	ppm
Ti (Titanium)	≤ 0.100	ppm	< 0.050	ppm
Tl (Thallium)	≤ 0.050	ppm	< 0.010	ppm
Zn (Zinc)	≤ 0.100	ppm	< 0.050	ppm
Pyridine and related substances	≤ 2	ppm	< 2	ppm
Substances reducing potassium permanganate	≤ 5	ppm	< 5	ppm
Residue after ignition	≤ 10	ppm	< 10	ppm
Non volatile matter	≤ 10	ppm	< 10	ppm

Certificate of Analysis

1.05423.1000 Ammonia solution 28-30% for analysis EMSURE®
ACS,Reag. Ph Eur

Batch K43044523

Date of release (DD.MM.YYYY): 16.12.2011

Minimum shelf life (DD.MM.YYYY): 31.12.2016

Dr. Reiner Vogt

responsible laboratory manager quality control

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