



PRODUCT CODE: 141130

Ammonia 30% (as NH₃) (USP-NF, BP, Ph. Eur.) pure, pharma grade

H₃N

NH₃

M.= 17,03

CAS [1336-21-6]

EINECS 215-647-6

TARIC 2814 20 00 00

SYNONYMS: Ammonium Hydroxide

PHYSICAL DATA: liquid, Clear, Colourless, Miscible with water • D 20/4 0,89 • Vap. press. (20 °C) 500 hPa •

BIBLIOGRAPHY: Merck Index **12**, 519 13, 494 Sax **AMY500** • Römp **8** , **182** • ACS **XI** • ISO 6353/2-1983 R- 3 , 4 • BP.**2018** • USP -**NF 36** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012 •

HAZARDOUS: C.E: 007-001-01-2 • RTECS: BQ 9625000 • LD50 oral rat 350 mg/kg • LC L0 inh hmn 5000 ppm / 5 min • LC50 inh rat 2000 ppm / 4h • VLA-EC 35 ppm25 mg/m3 VLA-ED 25 ppm18 mg/m3



H: H314 • H400 • H335 •

P: P260 • P261 • P264 • P271 • P273 • P501 • P280 • P301+P330+P331 • P303+P361+P353 • P304+P340 • P305+P351+P338 • P310 • P312 • P321 • P363 • P391 • P403+P233 • P405 •

TRANSPORT REGULATIONS: UN: 2672 • ADR: 8/III • IMDG: 8/III • IATA: 8/III • PAX: 852 • CAO: 856 • (E) •

WEIGHT/VOLUME INFORMATION: 1l~0,897 kg 1kg~1,115 l

OBSERVATIONS: Storage below 20°C •

SPECIFICATIONS:

Assay (Acidim.)	27,0-30,0 %*
Identity :	
Identity according to Pharmacopoeias:	passes test
Density at 20/20	0,892-0,901*

Maximum limit of impurities

Appearance of solution	passes test
Insoluble matter in H2O	passes test
Non-volatile matter	0,002 %
Reducing substance to KMnO4	passes test
Residue on ignition	0,01 %
Chloride (Cl)	0,0001%
Sulfur compounds (as SO4)	0,0005 %
Phosphate (PO4)	0,0005 %
Carbonate (as CO3)	0,005%
Residual solvents (Ph.Eur/USP)	passes test
Pyridine and homologues (as C6H5N)	0,0002%
Heavy metals (as Pb)	0,0001%
Ca	0,001 %
Fe	0,000025 %
Mg	0,001 %
Elemental impurities (ICH Q3D):	
Class 1	
Cd	0,5 ppm
Pb	0,5 ppm
As	0,4 ppm
Hg	1,5 ppm
Class 2A	
Co	5 ppm
V	10 ppm
Ni	20 ppm
Class 2B	
Tl	0,8 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm
Class 3	
Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm

* **At the moment of the batch analysis.**

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