



**PRODUCT CODE: 141129**

**Ammonia 25% (as NH<sub>3</sub>) (BP, Ph. Eur.) pure, pharma grade**

---

H<sub>3</sub>N

NH<sub>3</sub>

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 0,91 • Vap. press. (20 °C) 500 hPa •

**BIBLIOGRAPHY:** Merck Index **13**, 494 Sax **AMY500** • Römp **8**, **182** • ISO 6553/2-1983 R - 3, 4 • BP.**2020** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **10 11** •

**HAZARDOUS:** C.E: 007-001-01-2 • RTECS: BQ 9625000 • LD50 oral rat 350 mg/kg • LC L0 inh hm 5000 ppm / 5 min • LC50 inh rat 2000 ppm / 4h • VLA-EC [NH<sub>3</sub>(g)] 35 ppm25 mg/m<sup>3</sup> VLA-ED [NH<sub>3</sub>(g)] 25 ppm18 mg/m<sup>3</sup>



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~0,905 kg 1kg~1,105 l

**OBSERVATIONS:** Storage below 20°C •

**SPECIFICATIONS:**

Assay (Acidim.) (w/w)  
Identity :

25,0-27,0 %\*

Identity according to Pharmacopoeias: passes test  
Density at 20/20 0,901-0,907\*

**Maximum limit of impurities**

Appearance of solution passes test  
Non-volatile matter 0,002 %  
Reducing substance to KMnO4 passes test  
Chloride (Cl) 0,0001%  
Sulfur compounds (as SO4) 0,0005 %  
Phosphate (PO4) 0,0005 %  
Carbonate 0,005%

Residual solvents (Ph.Eur.) passes test  
Pyridine and homologues (as C6H5N) 0,0002%

Ca 0,001 %  
Fe 0,000025 %  
Mg 0,001 %

Elemental impurities (ICH Q3D):

Class 1

Cd 0,5 ppm  
Pb 0,5 ppm  
As 1,5 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.**