



**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.**2025** • Ph. Eur. **10.0** (2019) **11.0** (2023) • F.C.C **12 13** •

**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 [NH<sub>3</sub>(g)] 35 ppm25 mg/m3 VLA-ED [NH<sub>3</sub>(g)] 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~0,905 kg 1kg~1,105 l

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

#### **SPECIFICATIONS:**

|                                       |              |
|---------------------------------------|--------------|
| Assay (Acidim.) (w/w)                 | 25,0-27,0 %* |
| Identity :                            |              |
| 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 KMnO <sub>4</sub>                      | passes test |
| Chloride (Cl)                                                | 0,0001%     |
| Sulfur compounds (as SO <sub>4</sub> )                       | 0,0005 %    |
| Phosphate (PO <sub>4</sub> )                                 | 0,0005 %    |
| Carbonate                                                    | 0,005%      |
| Residual solvents (Ph.Eur.)                                  | passes test |
| Pyridine and homologues (as C <sub>6</sub> H <sub>5</sub> N) | 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.**