



PRODUCT CODE: 141129

Ammonia 25% (as NH₃) (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 0,91 • Vap. press. (20 °C) 500 hPa •

BIBLIOGRAPHY: Merck Index **13**, 494 Sax **AMY500** • Römp **8**, **182** • ISO 6553/2-1983 R - 3 , 4 • BP.**2018** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** •

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 [NH₃(g)] 35 ppm25 mg/m³ VLA-ED [NH₃(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)
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 KMnO ₄ | passes test |
| Chloride (Cl) | 0,0001% |
| Sulfur compounds (as SO ₄) | 0,0005 % |
| Phosphate (PO ₄) | 0,0005 % |
| Carbonate | 0,005% |

| | |
|--|-------------|
| Residual solvents (Ph.Eur.) | passes test |
| Pyridine and homologues (as C ₆ H ₅ N) | 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 | 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.**