

**Ammonia, solution 25% w/w, for analysis, ExpertQ®, Reag. Ph Eur, ISO****Identification**

NH<sub>3</sub>  
M = 17,03 g/mol  
CAS [1336-21-6]  
EC number: 215-647-6  
Taric code: 2814 20 00

**Synonyms**

Ammonia water, Ammonium hydroxide solution

**Applications**

analytical chemistry, laboratory reagent.

**Specifications**

assay (acidimetric, NH <sub>3</sub> ).....	25,0 - 30,0 %	calcium (Ca).....	max. 1 ppm
Identification B (EP).....	passes test	copper (Cu).....	max. 0,1 ppm
Identification C (EP).....	passes test	iron (Fe).....	max. 0,2 ppm
density (20°/20°).....	0,892 - 0,910	lead (Pb).....	max. 0,5 ppm
appearance of solution.....	clear and colourless	magnesium (Mg).....	max. 1 ppm
carbonates (as CO <sub>2</sub> ).....	max. 20 ppm	potassium (K).....	max. 1 ppm
chlorides (Cl).....	max. 0,5 ppm	sodium (Na).....	max. 5 ppm
phosphates (as PO <sub>4</sub> ).....	max. 2 ppm	pyridine and related substances.....	max. 2 ppm
silicates (SiO <sub>2</sub> ).....	max. 10 ppm	substances reducing KMnO <sub>4</sub> .....	max. 8 ppm
sulfates (SO <sub>4</sub> ).....	max. 2 ppm	oxidisable substances.....	passes test
		residue on evaporation.....	max. 20 mg/l

**Physical data**

- Density: 0,90 g/cm<sup>3</sup>
- Melting point: -57,5 °C
- Boiling point: 37,7 °C
- Vapour pressure: (20 °C) ~ 500 hPa
- Expl. limit (upper): 33,6 Vol%
- Expl. limit (lower): 15,4 Vol%
- pH(20 °C) > 12

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H314: Causes severe skin burns and eye damage.  
H335: May cause respiratory irritation.  
H400: Very toxic to aquatic life.

**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor / physician.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 8 C5 III • UN 2672 • AMMONIA SOLUTION
- IMDG: 8 III • UN 2672 • AMMONIA SOLUTION
- IATA/ICAO: 8 III • UN 2672 • AMMONIA SOLUTION
- PAX: 852
- CAO: 856
- 10°C - 30°C