

**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 - 30 %	indium (In).....	max. 0,000002 %
density (20°/4°).....	0,892 - 0,910	iron (Fe).....	max. 0,00001 %
appearance of solution.....	clear and colourless	lead (Pb).....	max. 0,000005 %
colour (Hazen).....	max. 10	lithium (Li).....	max. 0,000002 %
carbonates (as CO <sub>2</sub> ).....	max. 0,001 %	magnesium (Mg).....	max. 0,00001 %
chlorides (Cl).....	max. 0,00005 %	manganese (Mn).....	max. 0,000005 %
phosphates (as PO <sub>4</sub> ).....	max. 0,00005 %	molybdenum (Mo).....	max. 0,000005 %
sulfates (SO <sub>4</sub> ).....	max. 0,0002 %	nickel (Ni).....	max. 0,000005 %
sulfides (S).....	max. 0,00002 %	platinum (Pt).....	max. 0,00001 %
aluminium (Al).....	max. 0,00005 %	potassium (K).....	max. 0,00005 %
barium (Ba).....	max. 0,000005 %	silver (Ag).....	max. 0,000002 %
bismuth (Bi).....	max. 0,00001 %	sodium (Na).....	max. 0,00005 %
cadmium (Cd).....	max. 0,000005 %	strontium (Sr).....	max. 0,00001 %
calcium (Ca).....	max. 0,00005 %	thallium (Tl).....	max. 0,000005 %
chromium (Cr).....	max. 0,000005 %	tin (Sn).....	max. 0,00001 %
cobalt (Co).....	max. 0,000005 %	titanium (Ti).....	max. 0,00001 %
copper (Cu).....	max. 0,00001 %	zinc (Zn).....	max. 0,00001 %
gallium (Ga).....	max. 0,000002 %	pyridine and related substances.....	max. 0,0002 %
gold (Au).....	max. 0,00001 %	substances reducing KMnO <sub>4</sub> .....	passes test
heavy metals (as Pb).....	max. 0,0001 %	residue on evaporation.....	max. 0,001 %

**Packaging**
**Packaging Code**

1 l  AM02491000  
2,5 l  AM02492500

**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.  
H400: Very toxic to aquatic life.  
H335: May cause respiratory irritation.


**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.  
P321: Specific treatment (see on this label).  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Toxicological data**

- LD 50 (oral, rat): 350 mg/kg
- MAK: 20 ml/m<sup>3</sup>, 14 mg/m<sup>3</sup>
- WGK: 2
- Poison class CH (Swiss): 2

**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: 819
- CAO: 813
- Store below 25°C