

**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

**Specifications**

|  |                 |                        |              |
|--|-----------------|------------------------|--------------|
| assay (acidimetric, NH <sub>3</sub> )..... | 20 - 22 %       | lutetium (Lu).....     | max. 0,1 ppb |
| colour (Hazen).....                        | max. 10         | magnesium (Mg).....    | max. 1 ppb   |
| chlorides (Cl).....                        | max. 0,00005 %  | manganese (Mn).....    | max. 0,5 ppb |
| phosphates (as PO <sub>4</sub> ).....      | max. 0,000001 % | mercury (Hg).....      | max. 0,2 ppb |
| sulfates (SO <sub>4</sub> ).....           | max. 0,0001 %   | molybdenum (Mo).....   | max. 0,5 ppb |
| aluminium (Al).....                        | max. 1 ppb      | neodymium (Nd).....    | max. 0,1 ppb |
| antimony (Sb).....                         | max. 0,5 ppb    | nickel (Ni).....       | max. 0,5 ppb |
| arsenic (As).....                          | max. 1 ppb      | niobium (Nb).....      | max. 0,1 ppb |
| barium (Ba).....                           | max. 0,1 ppb    | potassium (K).....     | max. 1 ppb   |
| beryllium (Be).....                        | max. 0,1 ppb    | praseodymium (Pr)..... | max. 0,1 ppb |
| bismuth (Bi).....                          | max. 0,1 ppb    | rhodium (Rh).....      | max. 0,5 ppb |
| cadmium (Cd).....                          | max. 0,5 ppb    | rubidium (Rb).....     | max. 0,1 ppb |
| calcium (Ca).....                          | max. 1 ppb      | samarium (Sm).....     | max. 0,1 ppb |
| cerium (Ce).....                           | max. 0,1 ppb    | scandium (Sc).....     | max. 0,1 ppb |
| cesium (Cs).....                           | max. 0,1 ppb    | selenium (Se).....     | max. 1 ppb   |
| chromium (Cr).....                         | max. 0,5 ppb    | silver (Ag).....       | max. 0,5 ppb |
| cobalt (Co).....                           | max. 0,5 ppb    | sodium (Na).....       | max. 1 ppb   |
| copper (Cu).....                           | max. 0,5 ppb    | strontium (Sr).....    | max. 0,1 ppb |
| dysprosium (Dy).....                       | max. 0,1 ppb    | tellurium (Te).....    | max. 0,1 ppb |
| erbium (Er).....                           | max. 0,1 ppb    | terbium (Tb).....      | max. 0,1 ppb |
| europium (Eu).....                         | max. 0,1 ppb    | thallium (Tl).....     | max. 0,1 ppb |
| gadolinium (Gd).....                       | max. 0,1 ppb    | thorium (Th).....      | max. 0,1 ppb |
| gallium (Ga).....                          | max. 0,1 ppb    | thulium (Tm).....      | max. 0,1 ppb |
| germanium (Ge).....                        | max. 0,1 ppb    | tin (Sn).....          | max. 0,5 ppb |
| gold (Au).....                             | max. 0,5 ppb    | titanium (Ti).....     | max. 0,5 ppb |
| holmium (Ho).....                          | max. 0,1 ppb    | tungsten (W).....      | max. 0,1 ppb |
| indium (In).....                           | max. 0,1 ppb    | uranium (U).....       | max. 0,1 ppb |
| iron (Fe).....                             | max. 1 ppb      | vanadium (V).....      | max. 0,5 ppb |
| lanthanum (La).....                        | max. 0,1 ppb    | ytterbium (Yb).....    | max. 0,1 ppb |
| lead (Pb).....                             | max. 0,1 ppb    | yttrium (Y).....       | max. 0,1 ppb |
| lithium (Li).....                          | max. 0,1 ppb    | zinc (Zn).....         | max. 0,5 ppb |
|  |                 | zirconium (Zr).....    | max. 0,1 ppb |

**Physical data**

- Density: ~ 0,93 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- 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: 819
- CAO: 813
- 10°C - 30°C