

Identification

NH₃
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

Specifications

assay (acidimetric, NH ₃).....	min. 25 %	manganese (Mn).....	max. 0,05 ppm
aluminium (Al).....	max. 0,05 ppm	molybdenum (Mo).....	max. 0,05 ppm
barium (Ba).....	max. 0,05 ppm	nickel (Ni).....	max. 0,05 ppm
cadmium (Cd).....	max. 0,05 ppm	potassium (K).....	max. 0,05 ppm
calcium (Ca).....	max. 0,05 ppm	silver (Ag).....	max. 0,05 ppm
chromium (Cr).....	max. 0,05 ppm	sodium (Na).....	max. 0,05 ppm
cobalt (Co).....	max. 0,05 ppm	strontium (Sr).....	max. 0,05 ppm
copper (Cu).....	max. 0,05 ppm	thallium (Tl).....	max. 0,05 ppm
iron (Fe).....	max. 0,05 ppm	zinc (Zn).....	max. 0,05 ppm
lead (Pb).....	max. 0,05 ppm		
lithium (Li).....	max. 0,05 ppm	suitability for use in LC-MS.....	passes test
magnesium (Mg).....	max. 0,05 ppm		

Physical data

- Density: 0,90 g/cm³
- 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/m³, 14 mg/m³
- 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