

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

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.
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