

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

Applications

analytical chemistry, laboratory reagent, in pharma industry.

Specifications

assay (acidimetric, NH ₃).....	25,0 - 30,0 %	chlorides (Cl).....	max. 1 ppm
Identification B (EP).....	passes test	sulfates (SO ₄).....	max. 5 ppm
Identification C (EP).....	passes test	iron (Fe).....	max. 0,25 ppm
density (20°/20°).....	0,892 - 0,910	pyridine and related substances.....	max. 2 ppm
appearance of solution.....	clear and colourless	oxidisable substances.....	passes test
carbonates (as CO ₂).....	max. 60 ppm	substances reducing KMnO ₄	passes test
		residue on evaporation.....	max. 20 mg/l

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