

Ammonia, solution 20% w/w, for analysis, ExpertQ®**Identification**

NH₃
M = 17,03 g/mol
CAS [1336-21-6]
EC number: 215-647-6
Taric code: 2814 20 00

Synonyms

Ammonia water

Applications

analytical chemistry, laboratory reagent, detergent, bleaching agent, reagent for saponification reactions.

Specifications

assay (acidimetric, NH ₃).....	min. 20 %	iron (Fe).....	max. 0,1 ppm
colour (Hazen).....	max. 10	lead (Pb).....	max. 0,05 ppm
carbonates (as CO ₂).....	max. 0,001 %	lithium (Li).....	max. 0,02 ppm
chlorides (Cl).....	max. 0,00005 %	magnesium (Mg).....	max. 0,1 ppm
phosphates (as PO ₄).....	max. 0,00005 %	manganese (Mn).....	max. 0,05 ppm
sulfates (SO ₄).....	max. 0,0002 %	molybdenum (Mo).....	max. 0,05 ppm
sulfides (S).....	max. 0,00002 %	nickel (Ni).....	max. 0,05 ppm
aluminium (Al).....	max. 0,5 ppm	platinum (Pt).....	max. 0,1 ppm
barium (Ba).....	max. 0,05 ppm	potassium (K).....	max. 0,5 ppm
bismuth (Bi).....	max. 0,1 ppm	silver (Ag).....	max. 0,02 ppm
cadmium (Cd).....	max. 0,05 ppm	sodium (Na).....	max. 0,5 ppm
calcium (Ca).....	max. 0,5 ppm	strontium (Sr).....	max. 0,1 ppm
chromium (Cr).....	max. 0,05 ppm	thallium (Tl).....	max. 0,05 ppm
cobalt (Co).....	max. 0,05 ppm	tin (Sn).....	max. 0,1 ppm
copper (Cu).....	max. 0,1 ppm	titanium (Ti).....	max. 0,1 ppm
gallium (Ga).....	max. 0,02 ppm	zinc (Zn).....	max. 0,1 ppm
gold (Au).....	max. 0,1 ppm	pyridine and related substances.....	max. 0,0002 %
indium (In).....	max. 0,02 ppm	substances reducing KMnO ₄	max. 0,0005 %
		residue on evaporation.....	max. 0,001 %

Physical data

- Density: ~ 0,93 g/cm³
- 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