

Identification

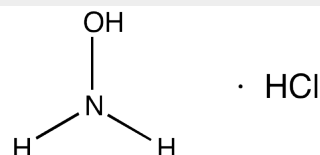
NH₂OH·HCl

M = 69,49 g/mol

CAS [5470-11-1]

EC number: 226-798-2

Taric code:


Synonyms

Hydroxylammonium chloride

Applications

analytical chemistry, strong reducing agent, synthesis of organic products, for the synthesis of: oximes. Separation and identification of: tellurium and selenium, for determination of: gold.

Specifications

assay (permanganometric).....	min. 99 %	ammonium (NH ₄).....	passes test
identity (IR-spectrum).....	passes test	arsenic (As).....	max. 5 ppm
insoluble in C ₂ H ₅ OH	passes test	copper (Cu).....	max. 5 ppm
insoluble in water.....	passes test	heavy metals (as Pb).....	max. 5 ppm
pH (5 %, H ₂ O).....	2,5 - 4,0	iron (Fe).....	max. 5 ppm
acidity.....	max. 0,25 meq/g	lead (Pb).....	max. 0,001 %
sulfates (SO ₄).....	max. 0,002 %	sulphur compounds (as SO ₄).....	max. 0,005 %
		residue on ignition.....	max. 0,01 %

Physical data

- Appearance: lightly humid crystals, white
- Spec. Density: 1,67 g/cm³
- Bulk density: ~ 900 kg/m³
- Solub. in water: (20 °C): 464 g/l
- Melting point: 159 °C
- pH(50 g/l H₂O, 20 °C) 2,5 - 3,5

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H290: May be corrosive to metals.
- H301: Toxic if swallowed.
- H312: Harmful in contact with skin.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H351: Suspected of causing cancer.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.


Precautionary Statements:

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- 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.

Transport/storage

- ADR: 8 CT2 III • UN 2923 • CORROSIVE SOLID, TOXIC, N.O.S. (Hydroxylamine hydrochloride)
- IMDG: 8 III • UN 2923 • CORROSIVE SOLID, TOXIC, N.O.S. (Hydroxylamine hydrochloride)
- IATA/ICAO: 8 III • UN 2923 • CORROSIVE SOLID, TOXIC, N.O.S. (Hydroxylamine hydrochloride)
- PAX: 860
- CAO: 864
- 10°C - 30°C