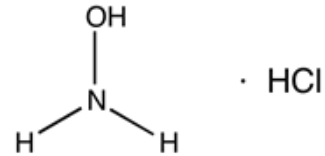


## Hydroxylamine hydrochloride, for analysis, ExpertQ®, ACS, ISO

**Identification**

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

**Physical data**

- Appearance: lightly humid crystals, white
- Spec. Density: 1,67 g/cm<sup>3</sup>
- Bulk density: ~ 900 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 464 g/l
- Melting point: 159 °C
- pH(50 g/l H<sub>2</sub>O, 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