

**Tin(II) chloride dihydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur****Identification**

SnCl<sub>2</sub>·2H<sub>2</sub>O  
M = 225,63 g/mol  
CAS [10025-69-1]  
EC number: 231-868-0  
Taric code: 2827 39 10

**Synonyms**

Hydrochloric acid tin(II) salt dihydrate, Stannous chloride, Stannochlor

**Applications**

analytical chemistry, laboratory reagent, for the detection of: arsenic, mercury, bismuth and gold.

**Specifications**

assay (iodometric).....	98 - 103 %	iron (Fe).....	max. 0,002 %
identity.....	passes test	lead (Pb).....	max. 0,005 %
solubility in HCl.....	passes test	magnesium (Mg).....	max. 0,005 %
sulfates (SO <sub>4</sub> ).....	max. 0,003 %	manganese (Mn).....	max. 0,0005 %
ammonium (NH <sub>4</sub> ).....	max. 0,002 %	nickel (Ni).....	max. 0,0005 %
arsenic (As).....	max. 1 ppm	other metals (as Pb).....	max. 0,01 %
calcium (Ca).....	max. 0,005 %	potassium (K).....	max. 0,005 %
copper (Cu).....	max. 0,001 %	sodium (Na).....	max. 0,01 %
heavy metals (as Pb).....	max. 0,005 %	non precipitable with H <sub>2</sub> S (as SO <sub>4</sub> ).....	max. 0,05 %

**Physical data**

- Appearance: crystals , white
- Spec. Density: 2,71 g/cm<sup>3</sup>
- Bulk density: ~ 1250 kg/m<sup>3</sup>
- Solub. in water: (20 °C): soluble
- Melting point: 37,7 °C
- pH(100 g/H<sub>2</sub>O, 20 °C) ~ 1 - 2

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

- H290: May be corrosive to metals.  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H412: Harmful to aquatic life with long lasting effects.

**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 C2 III • UN 3260 • CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(Tin(II) chloride dihydrate)
- IMDG: 8 III • UN 3260 • CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(Tin(II) chloride dihydrate)
- IATA/ICAO: 8 III • UN 3260 • CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.(Tin(II) chloride dihydrate)
- PAX: 860
- CAO: 864
- 10°C - 30°C