

TIN(II) CHLORIDE DIHYDRATE

- Synonyms: Hydrochloric acid tin(II) salt dihydrate, Stannous chloride, Stannochlor
- $\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$
- $M = 225,63 \text{ g/mol}$
- CAS [10025-69-1]
- EINECS-No.: 231-868-0
- Solub. in water: (20 °C): soluble
- Melting point: 37,7 °C
- LD 50 (oral, rat): 700 mg/kg (anhydrous substance)
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319 - H317 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2827 39 10 00
- Applications: analytical chemistry, laboratory reagent, for the detection of: arsenic, mercury, bismuth and gold.

ES0063 Tin(II) chloride dihydrate, extra pure, Pharmpur®, Ph Eur, BP

assay (iodometric) 98,0 - 102,0 %
 identification passes test
 appearance of solution clear and colourless
 sulfates (SO_4) max. 500 ppm
 iron (Fe) max. 100 ppm
 lead (Pb) max. 50 ppm






non-precipitable by thioacetamide max. 0,2 %
 Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

| ART. NO. | VOLUME | CONTAINER |
|------------|--------|---|
| ES00630100 | 100 g |  |
| ES00631000 | 1 kg |  |
| ES0063005P | 5 kg |  |

ES0064 Tin(II) chloride dihydrate, ExpertQ®, for analysis, ACS, ISO, Reag. Ph Eur

assay (iodometric) 98 - 103 %
 identity passes test
 solubility in HCl passes test
 sulfates (SO_4) max. 0,003 %
 ammonium (NH_4) max. 0,002 %
 arsenic (As) max. 1 ppm
 calcium (Ca) max. 0,005 %
 copper (Cu) max. 0,001 %
 heavy metals (as Pb) max. 0,005 %

iron (Fe) max. 0,002 %
 lead (Pb) max. 0,005 %
 magnesium (Mg) max. 0,005 %
 manganese (Mn) max. 0,0005 %
 nickel (Ni) max. 0,0005 %
 other metals (as Pb) max. 0,01 %
 potassium (K) max. 0,005 %
 sodium (Na) max. 0,01 %
 non precipitable with H_2S (as SO_4) max. 0,05 %

| ART. NO. | VOLUME | CONTAINER |
|------------|--------|---|
| ES00640100 | 100 g |  |
| ES00640250 | 250 g |  |
| ES00640500 | 500 g |  |
| ES00641000 | 1 kg |  |
| ES0064025P | 25 kg |  |

TIN(IV) CHLORIDE

ES0065 Tin(IV) chloride, EssentQ®

- Synonyms: Tin tetrachloride
- SnCl_4
- $M = 260,50 \text{ g/mol}$
- CAS [7646-78-8]
- EINECS-No.: 231-588-9
- Density: 2,23 g/cm³
- Solub. in water: (20 °C): soluble (decomposes)
- Melting point: -33 °C
- Boiling point: 114,1 °C
- Vapour pressure: (20 °C) 24 hPa
- EC-Index-No.: 050-001-00-5
- ADR: 8 C1 II UN 1827
- IMDG: 8 II UN 1827
- IATA/ICAO: 8 II UN 1827
- GHS-signal word: Danger
- GHS-H sentences: H314 - H412
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2827 39 10 00
- Applications: laboratory reagent, synthesis of organic products (desiccant), mordant/corrosive, stabilizer (cosmetics), in the ceramics industry (in galvanotechnology).
- Appearance: Colourless liquid
- assay (iodometric) min. 99 %
 sulfates (SO_4) max. 0,01 %
 arsenic (As) max. 0,01 %
 iron (Fe) max. 0,001 %
 non precipitable with H_2S (as SO_4) max. 0,05 %

| ART. NO. | VOLUME | CONTAINER |
|------------|--------|---|
| ES00650250 | 250 ml |  |

TIN(IV) OXIDE

ES0070 Tin(IV) oxide, EssentQ®

- Synonyms: Tin dioxide, Stannic (IV) oxide
- SnO_2
- $M = 150,70 \text{ g/mol}$
- CAS [18282-10-5]
- EINECS-No.: 242-159-0
- Solub. in water: (20 °C): insoluble
- Melting point: 1630 °C
- LD 50 (oral, rat): > 20000 mg/kg
- Tariff number: 2825 90 30 00
- Applications: laboratory reagent, mordant/corrosive (manufacture of dyes, painting), in the production of enamels, in the ceramics industry, polishing glass, metals and fingernails.
- assay (gravimetric) min. 99 %
 soluble in acid max. 0,2 %
 chlorides (Cl) max. 0,05 %
 sulfates (SO_4) max. 0,05 %
 residue on ignition (900 °C) max. 0,2 %
 iron (Fe) max. 0,01 %

| ART. NO. | VOLUME | CONTAINER |
|------------|--------|---|
| ES00701000 | 1 kg |  |