



>>Entry Name: Tin(II) chloride (SnCl<sub>2</sub>), 9CI

ENTRY UNDER REVIEW

Synonym(s): Stannous chloride. Stannochlor

CAS Registry Number: 7772-99-8

SnCl<sub>2</sub>

Molecular Formula: Cl<sub>2</sub>Sn

Molecular Weight: 189.615

Accurate Mass: 187.839904

Percentage Composition: Cl 37.39%; Sn 62.61%

Source/Synthesis: The anhyd. form is obt. by dehydration of the dihydrate or by passing HCl or Cl<sub>2</sub> gas over molten Sn

Use/Importance: Used in tin plating, as a reducing agent and as a food additive (antioxidant) eg. for colour retention in canned vegetables such as asparagus

Physical Description: White cryst.

Melting Point: Mp 246°

Boiling Point: Bp 623°

Solubility: Sol. H<sub>2</sub>O, EtOH, Et<sub>2</sub>O, Me<sub>2</sub>CO, EtOAc, MeOAc, Py

Aldrich: 20472-2

Fluka: 96529

Sigma: S2752

>>Derivative: Dihydrate

CAS Registry Number: 10025-69-1

Molecular Formula: Cl<sub>2</sub>H<sub>4</sub>O<sub>2</sub>Sn

Molecular Weight: 225.646

Accurate Mass: 223.861034

Percentage Composition: Cl 31.42%; H 1.79%; O 14.18%; Sn 52.61%

Physical Description: White monoclinic cryst.

Melting Point: Mp 37.7°

Solubility: Sol. EtOH, Et<sub>2</sub>O, Me<sub>2</sub>CO; dec. in H<sub>2</sub>O

Other Data: Struct. comprises discrete SnCl<sub>2</sub>(OH<sub>2</sub>) groups and isolated H<sub>2</sub>O molecules. Absorbs aerial O<sub>2</sub> forming the oxychloride

Aldrich: 43150-8

Fluka: 96527

Sigma: S9262

#### References:

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