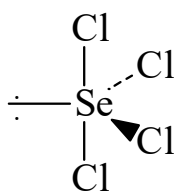


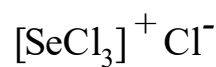


>>Entry Name: Selenium chloride (SeCl₄), 11Cl

Synonym(s): Selenium tetrachloride. Trichloroselenonium chloride



vapour struct.



solid-state struct.

CAS Registry Number: 10026-03-6

Molecular Formula: Cl₄Se

Molecular Weight: 220.771

Accurate Mass: 219.791928

Percentage Composition: Cl 64.23%; Se 35.77%

Source/Synthesis: Synth. from Se + Cl₂

Use/Importance: Powerful chlorinating agent. Commercially available

Physical Description: Bright yellow cryst. Completely dissoc. in vap. phase to SeCl₂ + Cl₂ Hydrol. in moist air to H₂SeO₃ + HCl

Melting Point: Mp 305°

Boiling Point: Subl. 196°

Solubility: Mod. sol. non polar org. solvs.

Hazard & Toxicity: Highly toxic, corrosive

Aldrich: 32352-7

References:

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Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **1**, 416, (*synth*)

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