



---

>>Entry Name: Germanium chloride (GeCl<sub>4</sub>)

Synonym(s): Germanium tetrachloride. Tetrachlorogermane

CAS Registry Number: 10038-98-9

GeCl<sub>4</sub>

Molecular Formula: Cl<sub>4</sub>Ge

Molecular Weight: 214.421

Accurate Mass: 213.796585

Percentage Composition: Cl 66.14%; Ge 33.86%

Physical Description: Colourless liq., fumes in air

Melting Point: Mp -49.5°

Boiling Point: Bp 84°

Solubility: Dec. in H<sub>2</sub>O; sol. EtOH, Et<sub>2</sub>O; v. sol. dil. HCl; insol. conc. HCl, H<sub>2</sub>SO<sub>4</sub>

Density: d<sup>30</sup> 1.844

Aldrich: 20845-0

Fluka: 48852

References:

McNair, A.M. *et al.*, *Inorg. Chem.*, 1982, **21**, 2603, (*ir*)

Reps, K.H., *Wiss. Z. Tech. Hochsch. "Otto von Guericke" Magdeburg*, 1982, **26**, 111, (*liq struct*)

Takeuchi, Y. *et al.*, *Inorg. Chem.*, 1984, **23**, 3835, (*Ge-73 nmr*)

Venezia, A.M. *et al.*, *J. Chem. Phys.*, 1986, **84**, 4797, (*aes*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, GDY000