



>>Entry Name: Indium(1+) tetrachloroindate(1-)

CAS Registry Number: 27037-67-8

Related CAS Registry Numbers(s): 13465-11-7

In[InCl₄]

Molecular Formula: Cl₄In₂

Molecular Weight: 371.451

Accurate Mass: 369.683168

Percentage Composition: Cl 38.18%; In 61.82%

Source/Synthesis: Synth. from InCl₃ + In in xylene

Physical Description: White cryst. (xylene). Apparently also detected in vap.

Melting Point: Mp 238°

Solubility: Almost insol. xylene

>>Derivative: 'Monomer'

Molecular Formula: Cl₂In

Molecular Weight: 185.725

Accurate Mass: 184.841584

Percentage Composition: Cl 38.18%; In 61.82%

Other Data: Props. not descr.

References:

- Palkin, A.P. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1963, **8**, 1344, (*phase diagram*)
Fedorov, P.I. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1964, **9**, 207; 209, (*phase diagram*)
Kenny, J.T. *et al.*, *J. Phys. Chem.*, 1968, **72**, 3094, (*Raman*)
Kuniya, Y. *et al.*, *J. Cryst. Growth*, 1975, **28**, 385, (*thermodyn props, uv-vis*)
Freeland, B.H. *et al.*, *Inorg. Chem.*, 1976, **15**, 475, (*synth*)
Freeland, B.H. *et al.*, *Can. J. Chem.*, 1977, **55**, 1527, (*esca*)
Fedorov, P.I. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1979, **24**, 432; 434, (*ternary compds*)
Colton, R. *et al.*, *Aust. J. Chem.*, 1981, **34**, 949, (*In nmr*)