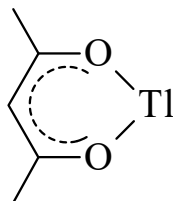




>>Entry Name: (2,4-Pentanedionato-*O,O'*)thallium(*I*), 12Cl

Synonym(s): (Acetylacetonato)thallium(*I*). Thallium acetylacetonate. Tl(acac)



CAS Registry Number: 14219-90-0

Extra CAS Registry Numbers(s): 25955-51-5

Molecular Formula: C₅H₇O₂Tl

Molecular Weight: 303.492

Accurate Mass: 304.019006

Percentage Composition: C 19.79%; H 2.32%; O 10.54%; Tl 67.34%

Source/Synthesis: Prepd. from Tl + 2,4-pentanedione in EtOH

Use/Importance: Forms Tl oxide films by MOCVD. Potential applications in solar power

Physical Description: White cryst. (CHCl₃)

Melting Point: Mp 160-165°

Other: Gelest: AKT830

References:

West, R. *et al.*, *J. Inorg. Nucl. Chem.*, 1958, **5**, 295, (*synth, ir*)

Smith, J.A.S. *et al.*, *J.C.S.(A)*, 1966, 1749, (*pmr*)

Wilkie, C.A. *et al.*, *J. Inorg. Nucl. Chem.*, 1978, **40**, 195, (*cmr*)

Nihoul, B. *et al.*, *Adv. Mass Spectrom.*, 1987, **7**, 605, (*ms*)

Berry, A.D. *et al.*, *Chem. Mater.*, 1991, **3**, 72, (*use*)