



>>Entry Name: (η^5 -2,4-Cyclopentadien-1-yl)thallium, 9CI

Synonym(s): Thallium cyclopentadienide

CAS Registry Number: 34822-90-7

As (η^5 -1-Bromo-2,4-cyclopentadien-1-yl)thallium, FRW78-Y with
X = H

Molecular Formula: C₅H₅Tl

Molecular Weight: 269.478

Accurate Mass: 270.013526

Percentage Composition: C 22.29%; H 1.87%; Tl 75.84%

Source/Synthesis: Synth. from TlOH and CpH

Use/Importance: Source of Cp ligand in metal complexes. Used in synth. of Au^I, Au^{II} and lanthanoid complexes. Catalyses transesterification. Reacts with activated org. halides without prototropic rearrangement. Reagent for the introduction of the Cp ligand into metal complexes

Physical Description: Relatively air-stable solid or pale yellow cryst.

Melting Point: Mp 230°. Mp 300°

Other Data: Ir v 3022, 1584, 995, 725 cm⁻¹

Hazard & Toxicity: Severe poison

Aldrich: 33787-0

References:

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