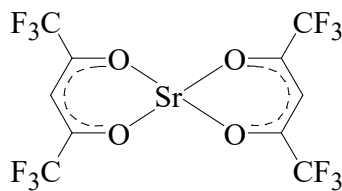




>>Entry Name: Bis(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)strontium(II)

Synonym(s): Bis(hexafluoroacetylacetonato)strontium. Strontium hexafluoroacetylacetonate. Sr(hfac)₂



CAS Registry Number: 121012-89-3

Molecular Formula: C₁₀H₂F₁₂O₄Sr

Molecular Weight: 501.724

Accurate Mass: 501.881765

Percentage Composition: C 23.94%; H 0.40%; F 45.44%; O 12.76%; Sr 17.46%

Source/Synthesis: Synth. from Sr + CF₃COCH₂COCF₃

Physical Description: Light yellow solid

Melting Point: Mp 220-275°

Boiling Point: Subl._{0.02} 220°

Other: Gelest AKS786

>>Derivative: Tetraglyme complex (2:1)

CAS Registry Number: 140656-01-5

Extra CAS Registry Numbers(s): 134316-34-0

Molecular Formula: C₃₀H₂₆F₂₄O₁₃Sr₂

Molecular Weight: 1225.729

Accurate Mass: 1225.910255

Percentage Composition: C 29.40%; H 2.14%; F 37.20%; O 16.97%; Sr 14.30%

Use/Importance: Precursor in MOCVD

Physical Description: Air-stable cryst.

Melting Point: Mp 137-139°

Boiling Point: Subl._{0.01} 115°

References:

Purdy, A.P. *et al.*, *Inorg. Chem.*, 1989, **28**, 2799-2803, (*synth, ir, pmr, F-19 nmr, ms*)

Timmer, K. *et al.*, *Inorg. Chim. Acta*, 1991, **190**, 109-117, (*tetraglyme complex, synth, ir, pmr, ms*)

Inorg. Synth., 1997, **31**, 1-7, (*tetraglyme complex, synth, pmr*)