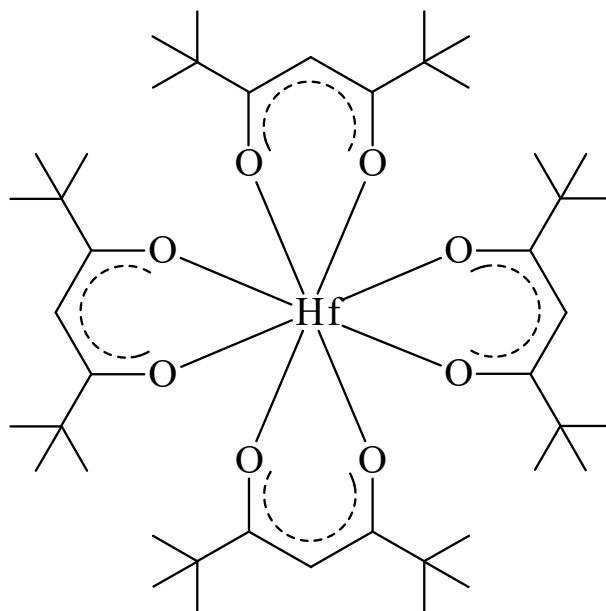




>>Entry Name: Tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionato-*O,O'*)hafnium(IV), 11Cl

Synonym(s): Tetrakis(dipivaloylmethanato)hafnium(IV)



CAS Registry Number: 63370-90-1

Molecular Formula: $C_{44}H_{76}HfO_8$

Molecular Weight: 911.57

Accurate Mass: 912.500565

Percentage Composition: C 57.98%; H 8.40%; Hf 19.58%; O 14.04%

Source/Synthesis: Synth. by addition of the ligand to a slurry of $HfCl_4$ in CCl_4

Use/Importance: Used to prepare thin films of HfO_2 by dec. in oxygen above 400°

Physical Description: White solid

Solubility: Sol. CCl_4 , petrol

References:

Balog, M. *et al.*, *Thin Solid Films*, 1977, **41**, 247, (*dec to HfO_2*)

Miskin, V.Ya. *et al.*, *Radiokhimiya*, 1980, **22**, 733; 1985, **27**, 354; *CA*, **94**, 40681v; **103**, 115036d, (*synth, thermal stability*)

Rubtsov, E.M. *et al.*, *Koord. Khim.*, 1982, **8**, 651; *CA*, **97**, 32648m, (*synth, dta*)