



Hf(OtBu)₄

Hafnium tetra(t-butoxide)

Hafnium tetra(2-methyl-2-propoxide)

Chemical formula	Hf[OC(CH ₃) ₃] ₄		
CAS No.	[2172-02-3]	Formula weight	470.95
Physical form	colorless liquid	Melting point	8°C
Density	1.17g/cm ³	Viscosity(at25°C)	ca. 5cP
Degree of association	1		
Solubility	miscible with toluene,hexane and THF		
air and light sensitive			
Typical impurities (ppm)	Na<1	K<1	Mg<1
	Ca<1	Cr<1	Fe<1
	Cu<1	Zr	1000
Vapor pressure			

Bradley and Swanwick, J.Chem.Soc. ,1959,3773

(temperature : 27~185°C)

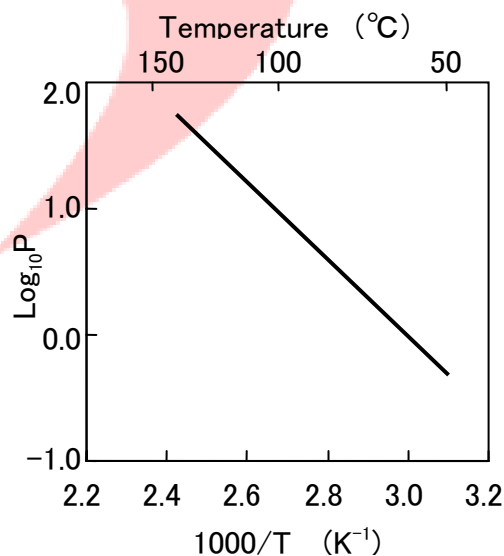
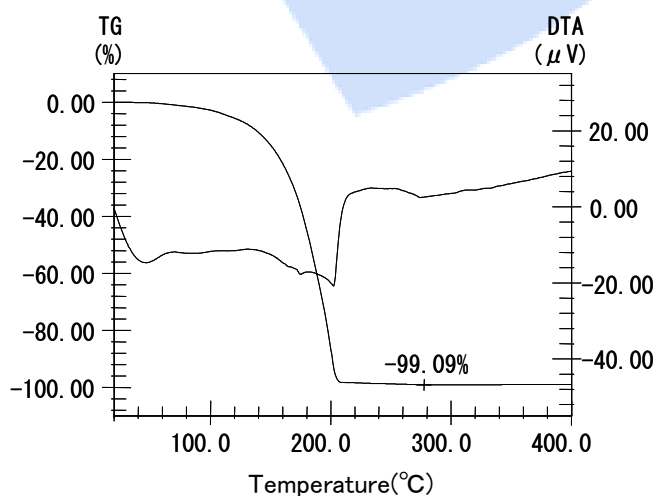
28°C/0.1Torr

Clausius-Clapeyron equation

$$\log_{10} P = - \frac{3052}{T} + 9.14$$

P:Torr T:K

Heat of vaporization 14.0kcal/mol

Fig. Clausius-Clapeyron plots for Hf(OtBu)₄Fig. TG-DTA of Hf(OtBu)₄ (1atm , in Ar)