

Hf(OtBu)₄

Hafnium tetra(t-butoxide)

Hafnium tetra(2-methyl-2-propoxide)

Chemical formula	Hf[OC(CH ₃) ₃] ₄			Formula weight	470.95			
CAS No.	[2172-02-3]			Melting point	8°C			
Physical form	colorless liquid			Viscosity(at25°C)	ca. 5cP			
Density	1.17g/cm ³							
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 (°C)		
	(temperature : 27~185°C)					150	100	50
	28°C/0.1Torr							
Clausius-Clapeyron equation	$\log_{10}P = - \frac{3052}{T} + 9.14$							
	P:Torr		T:K		Log ₁₀ P			
Heat of vaporization	14.0kcal/mol					2.0	1.0	0.0

Temperature (°C)

150 100 50

Log₁₀P

2.0 1.0 0.0

28°C/0.1Torr

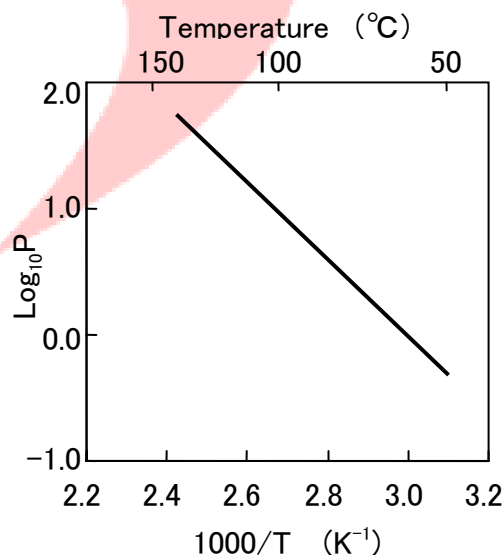


Fig. Clausius-Clapeyron plots for Hf(OtBu)₄

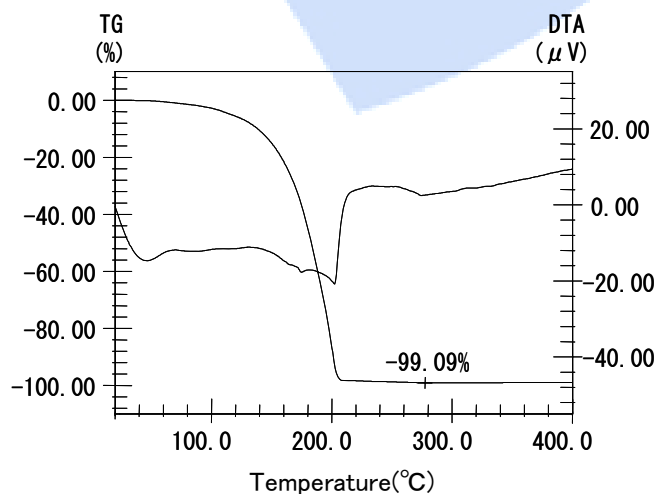


Fig. TG-DTA of Hf(OtBu)₄ (1atm , in Ar)