



Hf(NMe₂)₄

Hafnium tetrakis(dimethylamide)

Tetrakis(dimethylamino)hafnium

Chemical formula Hf[N(CH₃)₂]₄

CAS No. 19782-68-4

Formula weight 354.8

Physical form White (colorless) solid

Melting point 28°C

Density 1.48g/cm³ (ca.50°C)

Viscosity(40°C) 2~3cP (estimate from viewing)

Degree of association 1 (in benzene solution)

Solubility miscible with toluene , hexane and octane
air and moisture sensitive

Typical impurities (ppm) Na<1 K<1 Mg<1 Ca<1 Cr<1 Fe<1 Cu<1 Ni<1 Zr<500

Vapor pressure (as monomer)

measured by gas saturation method
(temperature : 30~60°C)

34°C/0.1Torr

Clausius-Clapeyron equation

$$\log_{10} P = - \frac{3377}{T} + 9.99$$

P: Torr T: K

Heat of vaporization : 15.5 kcal/mol

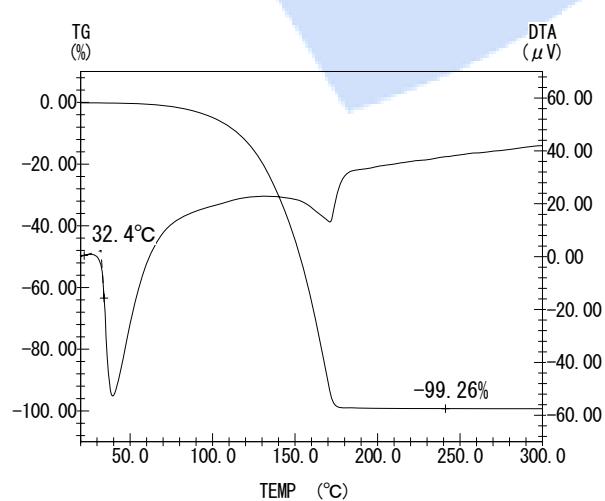
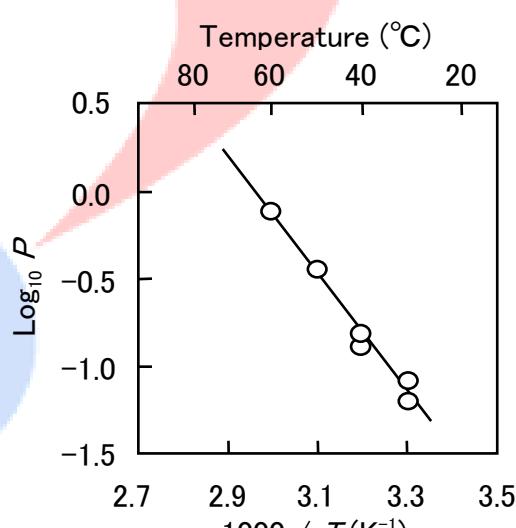


Fig. TG-DTA of Hf(NMe₂)₄ (1atm , in Ar)

Fig. Clausius-Clapeyron plots for Hf[N(CH₃)₂]₄