



# Al(OsecBu)<sub>3</sub>

Aluminum tri(2-butoxide)

Aluminum tri(sec-butoxide)

Chemical formula Al[OCH(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>3</sub>]<sub>3</sub>

CAS No. [2269-22-9] Formula weight 246.33

Physical form colorless liquid Melting point -60°C

Density(at 50°C) 0.937g/cm<sup>3</sup>

Viscosity(at 25°C) 2000cSt (20°C) , 680cSt (35°C) , 100cSt (60°C)  
30cSt(80°C) , 9cSt(100°C) , 2cSt(150°C)

Degree of association 2.4(liquid)

air and moisture sensitive

Solubility (at 25°C) miscible with toluene,hexane and THF

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

Vapor pressure

165°C/3Torr

Clausius-Clapeyron equation

$$\log_{10}P = -\frac{4698}{T} + 11.20$$

P:Torr T:K

Heat of vaporization 21.5 kcal/(2~3)mol

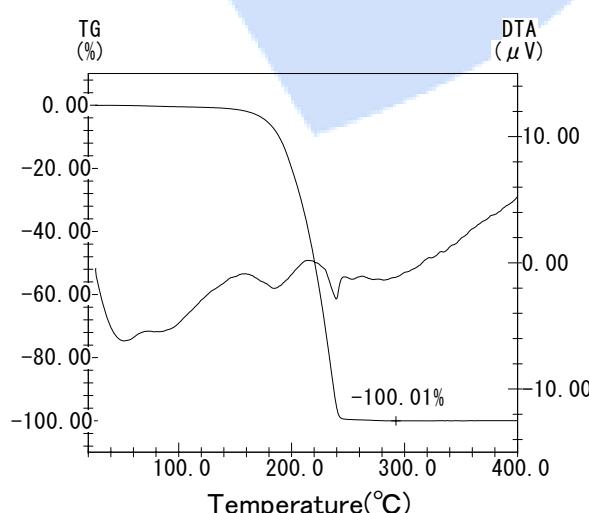


Fig. TG-DTA of Al(OsecBu)<sub>3</sub> (1atm , in Ar)

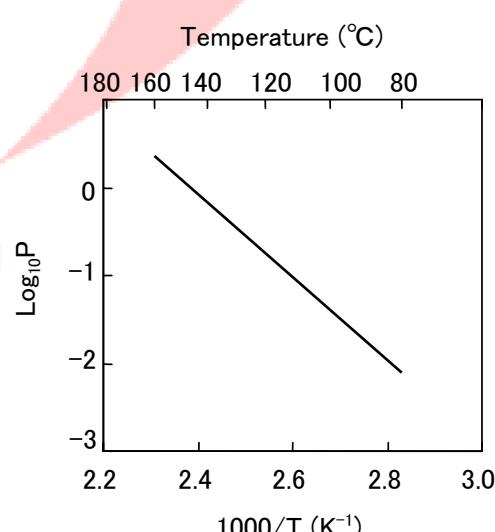


Fig. Clausius-Clapeyron plots for Al(OsecBu)<sub>3</sub>