



Al(OsecBu)₃

Aluminum tri(2-butoxide)

Aluminum tri(sec-butoxide)

Chemical formula	Al[OCH(CH ₃)CH ₂ CH ₃] ₃		
CAS No.	[2269-22-9]	Formula weight	246.33
Physical form	colorless liquid	Melting point	-60°C
Density(at 50°C)	0.937g/cm ³		
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

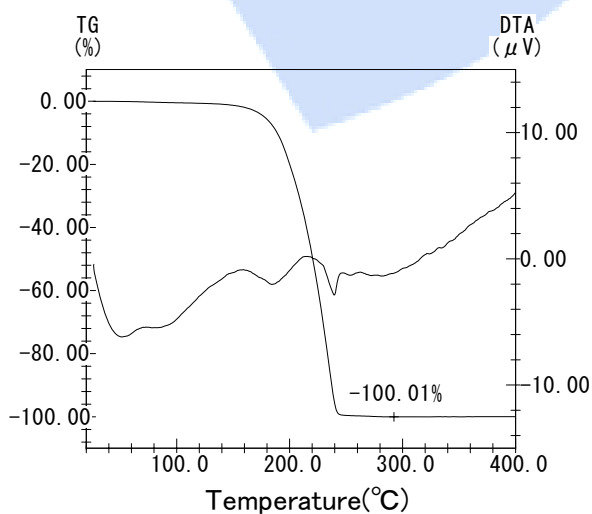


Fig. TG-DTA of Al(OsecBu)₃ (1atm , in Ar)

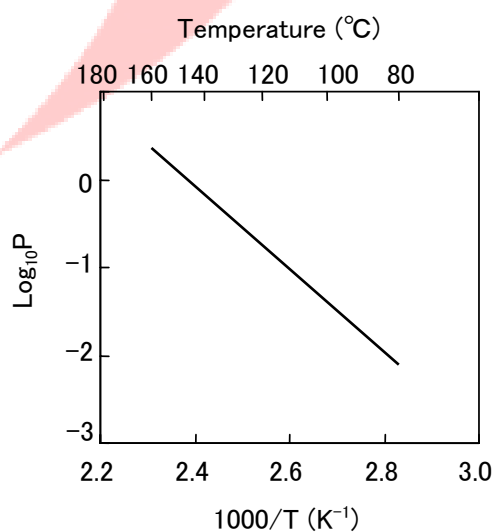


Fig. Clausius-Clapeyron plots for Al(OsecBu)₃