



Ru(EtCp)₂

Bis(ethylcyclopentadienyl)ruthenium

Chemical formula Ru(C₅H₄C₂H₅)₂
 CAS No. [32992-96-4] Formula weight 287.37
 Physical form yellow liquid Melting point 6°C
 Density (25°C) 1.38g/cm³
 Viscosity 6.5cSt/25°C . 1.5cSt/100°C
 Degree of association 1 (in benzene solution)
 Solubility (at 25°C) 50g/100m l THF . 40g/100m l toluene . 40g/100m l hexane
 Insoluble in water

almost stable in air

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

Vapor pressure

measured by gas saturation method

(temperature : 50~120°C)

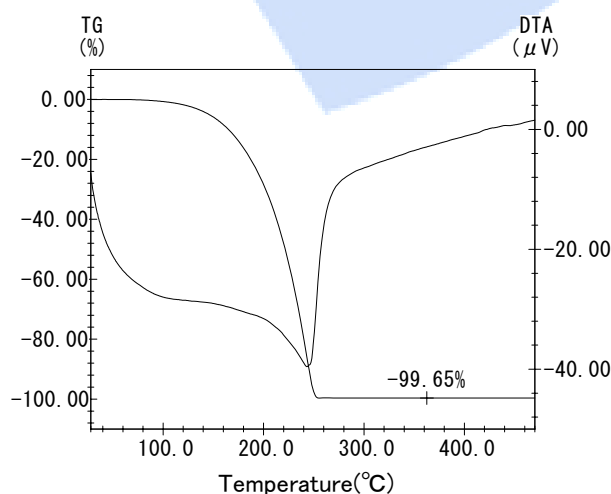
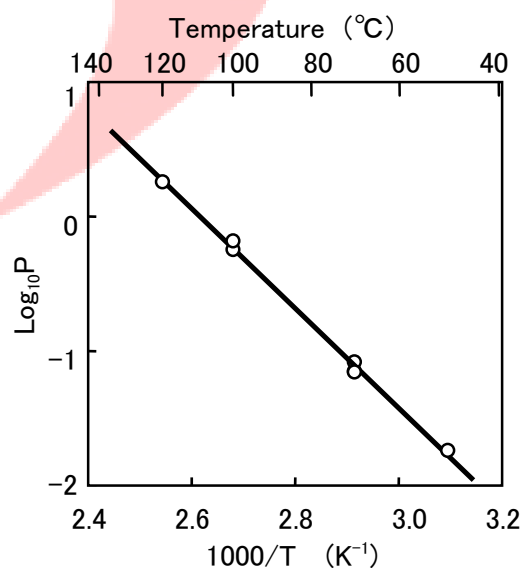
73°C/0.1Torr

Clausius-Clapeyron equation

$$\log_{10} P = - \frac{3708}{T} + 9.75$$

P: Torr T: K

Heat of vaporization 17.0 kcal/mol

Fig. TG-DTA of Ru(EtCp)₂ (1atm , in Ar)Fig. Clausius-Clapeyron plots for Ru(EtCp)₂