



## Ru(EtCp)<sub>2</sub>

Bis(ethylcyclopentadienyl)ruthenium

Chemical formula Ru(C<sub>5</sub>H<sub>4</sub>C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>

CAS No. [32992-96-4]

Formula weight 287.37

Physical form yellow liquid

Melting point 6°C

Density (25°C) 1.38g/cm<sup>3</sup>

Viscosity 6.5cSt/25°C . 1.5cSt/100°C

Degree of association 1 (in benzene solution)

Solubility (at 25°C) 50g/100mLTHF . 40g/100mLtoluene . 40g/100mLhexane

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

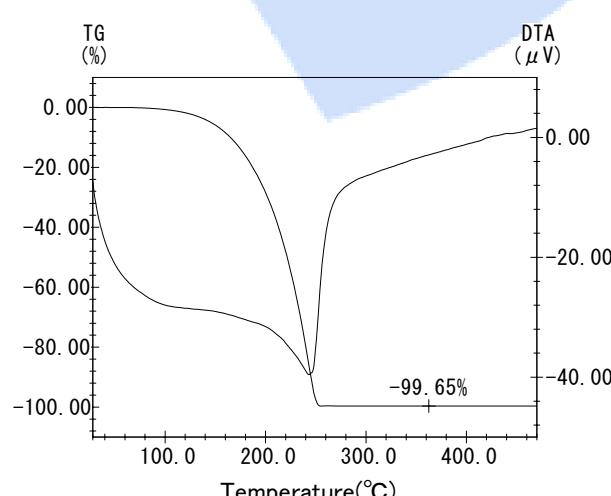


Fig. TG-DTA of Ru(EtCp)<sub>2</sub> (1atm , in Ar)

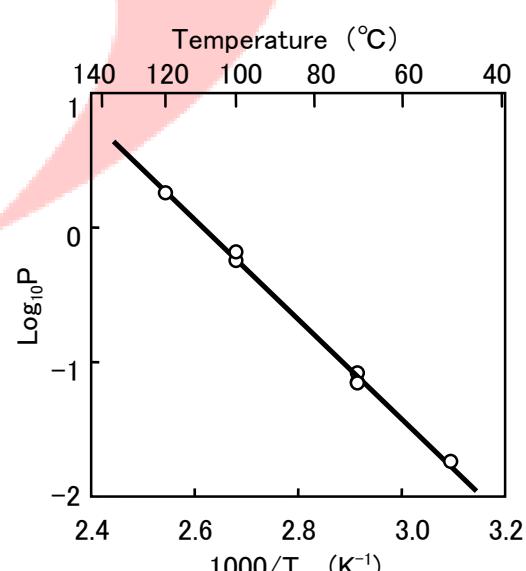


Fig. Clausius-Clapeyron plots for Ru(EtCp)<sub>2</sub>