



## Zr(OiPr)(dpm)<sub>3</sub>

Zirconium(i-propoxy)tris(dipivaloylmethanate)

Zirconium(2-propoxy)tris(2,2,6,6-tetramethyl-3,5-heptanedionate)

Chemical formula Zr[OCH(CH<sub>3</sub>)<sub>2</sub>][(CH<sub>3</sub>)<sub>3</sub>C-COCHCO-C(CH<sub>3</sub>)<sub>3</sub>]<sub>3</sub>

CAS No. [343311-16-0] Formula weight 700.13

Physical form White solid Melting point >210°C

Density (at 22°C) 1.17 g/cm<sup>3</sup>

Degree of association 1.07 (in benzene solution)

Solubility (at 25°C) 980 g/l THF, 1100 g/l toluene

620 g/l hexane, 460 g/l n-butyl acetate

Typical impurities (ppm) Na <1 K <1 Mg <1 Ca <1 Cr <1 Fe <1 Cu <1 Ni <1 Hf <20

Vapor pressure

measured by gas saturation method

(temperature : 120 ~ 160°C)

153°C/0.1Torr

Clausius-Clapeyron equation

$$\log_{10}P = -\frac{7924}{T} + 17.61$$

P: Torr      T: K

Heat of vaporization 36.3 kcal/mol

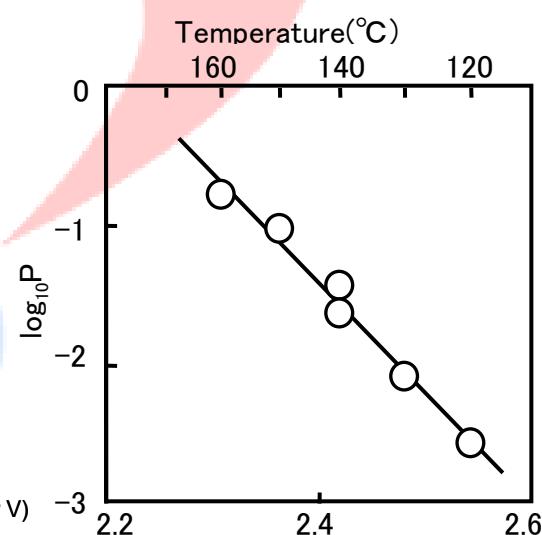


Fig. Clausius-Clapeyron plots for  
Zr(OiPr)(dpm)3

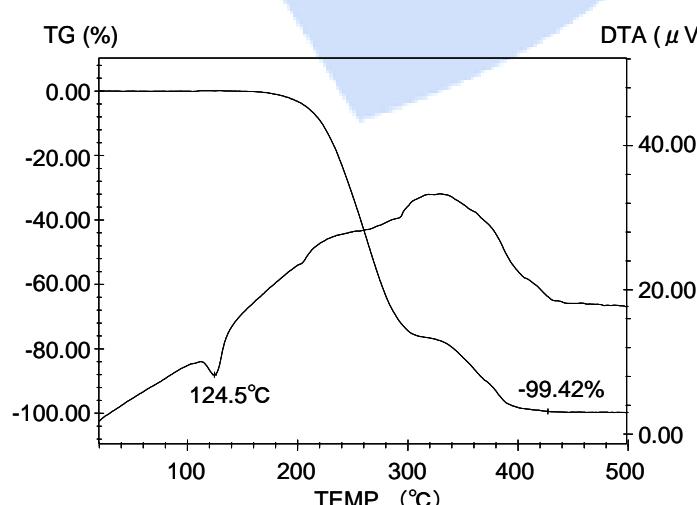


Fig. TG-DTA of Zr(OiPr)(dpm)3 (1atm, in Ar)