

Ti(OiPr)₂(dpm)₂

Titanium di(i-propoxy)bis(dipivaloylmethanate)

Titanium di(2-propoxy)bis(2,2,6,6-tetramethyl-3,5-heptanedionate)

Chemical formula $\text{Ti}[\text{OCH}(\text{CH}_3)_2]_2[(\text{CH}_3)_3\text{C-COCHCO-C}(\text{CH}_3)_3]_2$

CAS No. [144665-26-9]

Formula weight 532.60

Physical form solid

Melting point 160°C

Density 1.0g/cm³

Degree of association 1 (in benzene solution)

Solubility (at 25°C) 1550g/1□THF , 1000g/1□toluene

860g/1□hexane , 580g/1□n-butyl acetate

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: 100~130°C)

123°C/0.1Torr

Clausius-Clapeyron equation

$$\log_{10} P = - \frac{5435}{T} + 12.73$$

P : Torr T : K

Heat of vaporization 24.9 kcal/mol

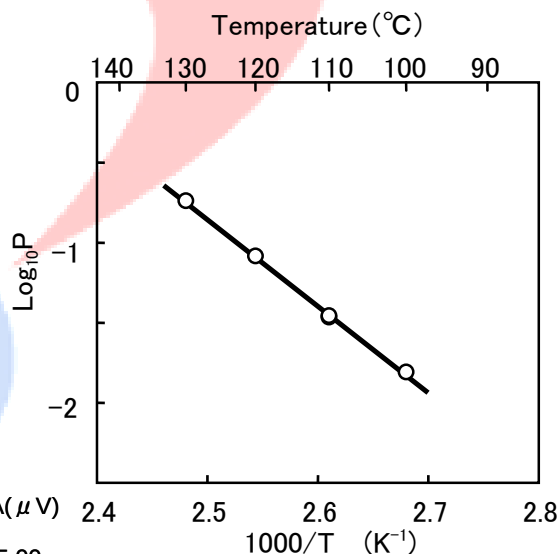


Fig. Clausius-Clapeyron plots
for Ti(OiPr)₂(dpm)₂

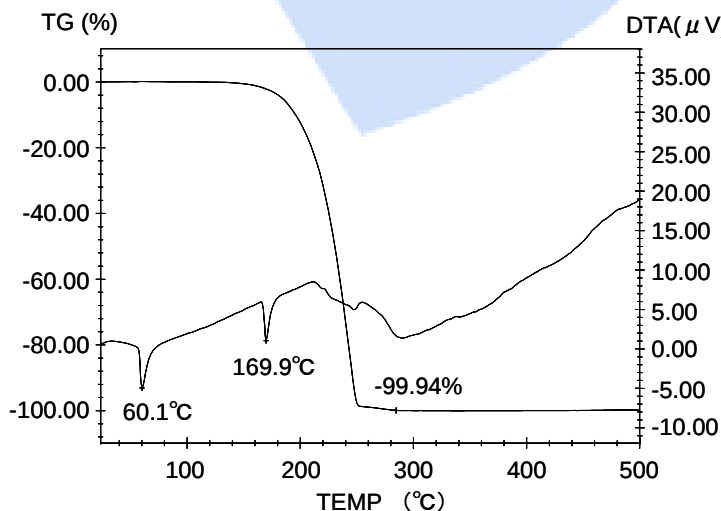


Fig. TG-DTA of Ti(OiPr)₂(dpm)₂ (1atm , in Ar)