



>>Entry Name: Tetrachlorobis(tetrahydrofuran)titanium(IV), 11Cl

Synonym(s): Titanium(IV) chloride bis(tetrahydrofuran)

CAS Registry Number: 31011-57-1

(THF)₂TiCl₄

Molecular Formula: C₈H₁₆Cl₄O₂Ti

Molecular Weight: 333.904

Accurate Mass: 331.938385

Percentage Composition: C 28.78%; H 4.83%; Cl 42.47%; O 9.58%; Ti 14.34%

Source/Synthesis: Synth. by adding THF to a soln. of TiCl₄ in CH₂Cl₂

Use/Importance: Catalyst for the polym. of olefins

Physical Description: Bright yellow air-sensitive solid

Melting Point: Mp 126-128°

Solubility: Sol. CH₂Cl₂, insol. pentane

Aldrich: 39540-4

Fluka: 89546

References:

Perkins, P.G. *et al.*, *J.C.S.(A)*, 1970, 3229, (*thermochem*)

Eur. Pat., 1980, 11 308; *CA*, **94**, 31309c, (*use*)

Ikonitskii, I.V. *et al.*, *Zh. Prikl. Spektrosk.*, 1981, **34**, 673; *CA*, **94**, 216795b, (*ir*)

Inorg. Synth., 1982, **21**, 135, (*synth, ir*)