

The Ti(IV) Complex of a Benzannulated N-Heterocyclic Carbene

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The yellow titanium(IV) carbene complex [TiCl₄(**1**)], **2** (**1** = *N,N'*-bis(2,2-dimethylpropyl)benzimidazol-2-ylidene) was synthesized by reaction of TiCl₄ and the benzannulated carbene **1** in toluene. The X-ray structure analysis revealed a mononuclear complex with a titanium(IV) center coordinated in a distorted trigonal-bipyramidal fashion by the carbene ligand in an equatorial position and four chloro ligands.

Key words: Carbene Ligand, Titanium(IV), Crystal
Structure