# Unusual Formation of Two New Titanium(IV) Tetraphenolates

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When the product of the reaction of 2,6-di-*tert*.-butylphenol with $TiCl_4$ in a 3:1 ratio is treated with $Na[HBEt_3]$, the isolated product is not $(2,6\text{-}tert.\text{-}Bu_2C_6H_3O)_3Ti(HBEt_3)$ but the isomerized ester $(2,4\text{-}tert.\text{-}Bu_2C_6H_3O)_4Ti$ with molecular $S_4$ symmetry. This rearrangement of the R substituents does not occur upon reacting 2,6-diisopropylphenol with $TiCl_4$ and $Na[HBEt_3]$. An unexpected result is also observed for the product of the reaction of tris(2,6-diisopropylphenolato)titanium(IV) chloride with lithium bis(pentafluorophenolato)dihydridoborate. The isolated product proved to be dimeric tris(pentafluorophenolato)(2,6-diisopropylphenolato)titanium(IV) with two bridging pentafluorophenolato groups generating pentacoordinated Ti atoms.

*Key words:* Tetrakis(2,4-di-*tert*.-butyl-phenolato)titanium(IV), Dimeric [Tris(pentafluorophenolato)(2,6-diisopropylphenolato)titanium(IV), X-Ray Structures