When the product of the reaction of 2,6-di-tert.-butylphenol with TiCl₄ in a 3:1 ratio is treated with Na[HBEt₃], the isolated product is not (2,6-tert.-Bu₂C₆H₃O)₃Ti(HBEt₃) but the isomerized ester (2,4-tert.-Bu₂C₆H₃O)₄Ti with molecular $S₄$ symmetry. This rearrangement of the R substituents does not occur upon reacting 2,6-diisopropylphenol with TiCl₄ and Na[HBEt₃]. 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.

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