

Structural Chemistry of Titanium Alkoxides Substituted by the Chelating Bidentate Ligands Isoeugenolate or 2-Aminoethanolate

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Dedicated to Professor Hubert Schmidbaur on the occasion of his 70th birthday

The compounds $[\text{Ti}(\text{OPr})_3(\text{isoeugenolate})]_2$ and $[\text{Ti}(\text{OR})_3(\text{OCH}_2\text{CH}_2\text{NH}_2)]_2$ ($\text{R} = i\text{Pr}, \text{Et}$), obtained by reaction of titanium alkoxides with isoeugenol (2-methoxy-4-propenylphenol) or 2-aminoethanol, are centrosymmetric dimers with a central $\text{Ti}_2(\mu_2\text{-OR})_2$ unit. The isoeugenolate and 2-aminoethanolate ligands are chelating, with the uncharged donor group (OR or NH_2 , respectively) axial to the $\text{Ti}_2(\mu_2\text{-OR})_2$ ring.

Key words: Titanium Alkoxide Derivatives, Chelating Ligands, Organically Modified Metal Alkoxides