



scans; Cu- $K_{\alpha}$  radiation. 1840 and 995 reflection intensities with  $\sigma(I)/I < 0.25$  and 0.20 for (2b) and (2c) respectively, were used for the structure solutions by statistical methods. The final  $R$  factors are 0.095 and 0.078 and the structures are shown in Figures 1 and 2.

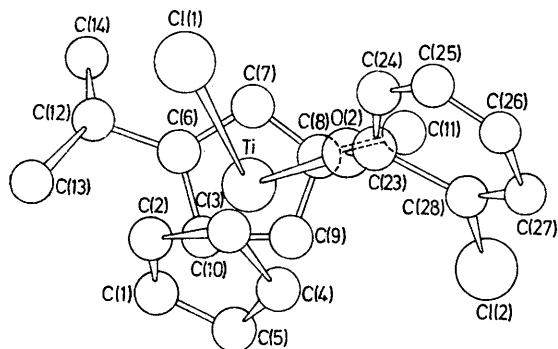


FIGURE 1. Structure of  $[(\eta^5\text{-C}_5\text{H}_5)(\eta^5\text{-1-Me,3-Pr}^1\text{C}_5\text{H}_3)(2\text{-ClC}_6\text{-H}_4\text{O})\text{ClTi}]$ , (2b).

The retention of configuration in reaction (2) must be compared with the stereochemistry of cleavage of  $\alpha$ -phenyl ethers by HCl.<sup>7</sup> We suggest, by analogy with the proposed

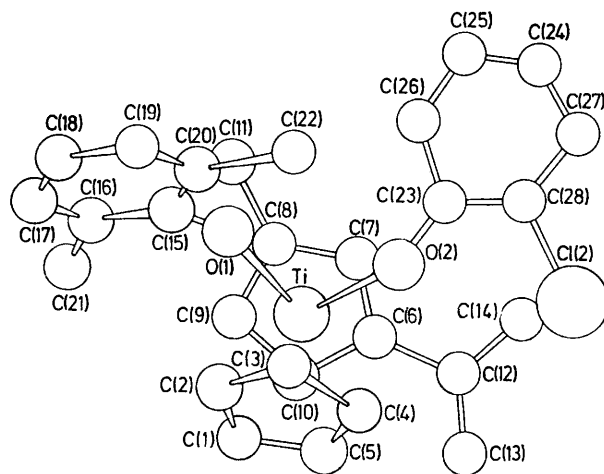


FIGURE 2. Structure of  $[(\eta^5\text{-C}_5\text{H}_5)(\eta^5\text{-1-Me,3-Pr}^1\text{C}_5\text{H}_3)(2\text{-ClC}_6\text{-H}_4\text{O})(2,6\text{-Me}_2\text{C}_6\text{H}_3\text{O})\text{Ti}]$ , (2c).

mechanism of cleavage of organomercury compounds<sup>8</sup> that the reaction occurs by attack of an ion pair or a non-dissociated molecule and not by a solvated proton.

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