Investigation of the Thionation Reaction of Cyclic Imides

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A series of monothioimides and dithioimides were synthesised using Lawesson’s reagent. It has been found that two main effects affect thionation reaction. The high polarity of carbonyl groups leads to good yields of mono- and dithioimides. On the other hand, steric hindrance in the vicinity of the carbonyl group strongly inhibits the replacement of the oxygen atom by sulfur.