

Synthesis and attempted Polymerization of N-Arylmaleamides substituted with Allylamino or Cyclopropylamino groups at 2-position .

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Abstract

Several N-substituted chloromaleimides were prepared by dehydrating the corresponding chloromaleamic acids. Treatment of chloromaleimides with allylamine or cyclopropylamine produced N-aryl-2-(allylamino)maleimides and N-aryl-2-(cyclopropylamino)maleimides, respectively. Neither the N-substituted chloromaleimides nor the N-aryl-2-(allylamino) or N-aryl-2-(cyclopropylamino) maleimides polymerized free radically or anionically. The difficulty of achieving good pi-pi overlap and steric effects at the propagation step prevented the cyclopolymerization of the prepared 1,5-dienes.