

Photochemical, thermal, and thermocatalytic reactions of diphenyldiazomethane with dimethyl thiophosphite

Arbuzov B., Polozov A., Polezhaeva N., Mustafin A., Levin Y., Gol'dfarb E.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The direct photolysis of diphenyldiazomethane in dimethyl thiophosphite gave the product of P-H insertion. The thermal reaction leads to the N-dimethoxythiophosphorylhydrazone of benzophenone and O,O-dimethyl S-(diphenylmethyl) thiophosphate. Carbenoid P-H insertion occurred in the thermocatalytic decomposition. © 1989 Plenum Publishing Corporation.

<http://dx.doi.org/10.1007/BF00958073>
