

Russian Journal of General Chemistry 2012 vol.82 N1, pages 27-32

Reactions of O,O-dialkyldithiophosphoric acids with non-activated α -olefins

Nizamov I., Popovich Y., Cherkasov R.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Electrophilic addition reactions of O,O-dialkyldithiophosphoric acids to non-activated α -olefins proceeding in accordance with the Markovnikov's rule were studied. In the absence of a catalyst these reactions occur very slowly to give the products in low yields, while Lewis acid as a catalyst can greatly accelerate the reaction and increase the conversion in the Ad E-processes. A similar acceleration of the addition processes and an increase in the reaction product yield occur at the action of ultrasound on the reaction medium. © 2012 Pleiades Publishing, Ltd..

<http://dx.doi.org/10.1134/S1070363212010057>
