

Optically active dithiophosphoric acid, its ammonium salt, and S-esters on the basis of (1 R)-endo-(+)-fenchyl alcohol

Nizamov I., Gabdullina G., Terenzhev D., Nurmukhametov A., Cherkasov R.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2014 Taylor and Francis Group, LLC. Optically active dithiophosphoric acid was prepared by the reaction of tetraphosphorus decasulfide with (1R)-endo-(+)-fenchyl alcohol. The ammonium salt of dithiophosphoric acid prepared reacts with methyl chloroacetate and benzoyl chloride to give dithiophosphate S-esters.

<http://dx.doi.org/10.1080/10426507.2013.860531>

Keywords

(1R)-endo-(+)-fenchyl alcohol, benzoyl chloride, dithiophosphate S-esters, dithiophosphoric acid, methyl chloroacetate, Tetraphosphorus decasulfide