

Russian Journal of Organic Chemistry 2014 vol.50 N4, pages 521-534

Sulfides, sulfones, and sulfoxides of the furan-2(5H)-one series. synthesis and structure

Latypova L., Saigitbatalova E., Chulakova D., Lodochnikova O., Kurbangalieva A., Berdnikov E., Chmutova G.

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

Abstract

A number of 4- and 5-R-sulfanylfuran-2(5H)-one derivatives were synthesized, and their oxidation with various reagents was studied. The corresponding sulfones were obtained using hydrogen peroxide in acetic acid. 4-R-sulfanyl derivatives were selectively oxidized to sulfoxides with m-chloroperoxybenzoic acid. The molecular and crystal structures of some new sulfones and sulfoxides were determined by X-ray analysis. © 2014 Pleiades Publishing, Ltd.

<http://dx.doi.org/10.1134/S1070428014040149>
