

Interaction of diphenylacetylene with platinum diiodide in dimethyl sulfoxide in the presence of oxygen

© Vladimir V. Sharutin,^{*+} Olga K. Sharutina, and Vladislav S. Senchurin

Department of Organic Chemistry. Chemistry Faculty. South Ural State University. Pr. Lenin, 76.

Chelyabinsk, 454080. Russia. Phone: +7 (351) 267-95-70. E-mail: vvsharutin@rambler.ru

^{*}Supervising author; ⁺Corresponding author

Keywords: *oxidation, diphenylacetylene, platinum diiodide, dimethylsulfoxide, diphenylethanedion-1,2.*

Abstract

Diphenylacetylene in dimethylsulphoxide in the presence of atmospheric air and platinum diiodide is oxidized to diphenylethanedion-1, 2 with the yield of 91%. In the absence of platinum diiodide in the reaction mixture the formation of diphenylethanedion-1,2 did not take place.