

Russian Journal of Organic Chemistry 2007 vol.43 N6, pages 911-914

Cyclopropanecarbaldehyde with two protected hydroxymethyl groups

Baimashev B., Fedorenko V., Polozov A., Shtyrlin Y., Klimovitskii E.

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

Abstract

3,5-Dioxabicyclo[5.1.0]octane-8-carbaldehyde was synthesized in three steps, including initial stereoselective exo-cyclopropanation of 1,3-dioxacyclohept-5-ene with ethyl diazoacetate. The subsequent phosphorylation according to Abramov and Kabachnik-Fields gave the corresponding α -hydroxy(acetoxy)- and α -aminocyclopropylmethylphosphonates with protected hydroxymethyl moieties at the three-membered ring. © 2007 Pleiades Publishing, Ltd.

<http://dx.doi.org/10.1134/S107042800706019X>
