Reactions of 1-Bromo-1-nitro-3,3,3-trichloropropene with Acetylacetone and Cyclohexane-1,3-dione

S. V. Makarenko[a], E. V. Stukan'[b], E. V. Trukhin[a], and V. M. Berestovitskaya[a]

[a] *Herzen State Pedagogical University of Russia, nab. reki Moiki 48, St. Petersburg, 191186 Russia*
e-mail: kohrgpu@yandex.ru

[b] *Elastokam, St. Petersburg, Russia*

Received May 14, 2015

Abstract—Reactions of 1-bromo-1-nitro-3,3,3-trichloropropene with acetylacetone, dihydroresorcinol, and dimedone afforded substituted dihydrofuran and hexahydrobenzofurans containing nitro and trichloromethyl functionalities. Their structure was established by spectroscopic (IR, UV, ^{1}H, $^{13}C-\{^{1}H\}$ NMR) methods and X-ray diffraction analysis.

Keywords: 1-bromo-1-nitro-3,3,3-trichloropropene, acetylacetone, 1,3-cyclohexanedione, Michael reaction, heterocyclization

DOI: 10.1134/S1070363215100126