4,5-Dimethoxy-2-nitrobenzophenone

Sergey K. Smirnov, Alexander V. Butin and Tat'yana A. Stroganova

Research Laboratory of Furan Chemistry, Kuban State Technological University, Moskovskaya 2, Krasnodar, Russian Federation. Phone: +7 8612 55 95 56; E-mail: nemol@kubstu.ru, strog@kuban.net

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The general part of the experimental section [1] has been presented elsewhere. To a solution of 4,5-dimethoxybenzophenone (3.0 g, 12.4 mmol) in 7 ml of glacial acetic acid, red fuming nitric acid (3.4 ml) was added. The flask was rapidly cooled in an ice-water bath. After 35 minutes reaction time the mixture was poured into water. The precipitate was removed by filtration, washed with water and recrystallized from ethanol to give 2.97 g (83.5 %) 4,5-dimethoxy-2-nitrobenzophenone.

M.p. 137°C (ethanol).

IR (cm$^{-1}$): 1660 (C=O).

$^1$H NMR (CDCl$_3$, 80 MHz): 7.70 (s, 1H, 3-H$_{Ar}$); 7.22-7.61 (m, 5H, H$_{Ph}$); 6.81 (s, 1H, 6-Ar); 3.97 (s, 3H, OCH$_3$); 3.90 (s, 3H, OCH$_3$).

Anal. calc. for C$_{15}$H$_{13}$NO$_5$ (287.28): C 62.72, H 4.56; Found: C 62.61, H 4.29.

Reference


Sample availability: available from the authors and from MDPI.

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