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4,5-Dimethoxy-2-nitroacetophenone

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The general part of the experimental section [1] has been presented elsewhere. To solution of 4,5-dimethoxyacetophenone (20.0 g, 110 mmol) in 45 ml of glacial acetic acid, red fuming nitric acid (22.0 ml) was added dropwise with cooling in an ice-water bath. After 20 minutes the reaction mixture was poured into water. Increasing the reaction time caused by-product formation. The precipitate was filtered off, washed with water and recrystallized from ethanol to yield 14.3 g (58 %) 4,5-dimethoxy-2-nitroacetophenone.

M.p. 134°C (ethanol).

\(^1\)H NMR (CDCl\(_3\), 80 MHz): 7.60 (s, 1H, 3-H\(_{Ar}\)); 6.75 (s, 1H, 6-H\(_{Ar}\)); 3.93 (s, 6H, OCH\(_3\)); 2.42 (s, 3H, CH\(_3\)).

IR (cm\(^{-1}\)): 1680 (C=O).

Anal. calc. for C\(_{10}\)H\(_{11}\)NO\(_5\) (225.21): C 53.33, H 4.92; Found: C 53.17, H 5.09.

Reference


Sample availability: available from the authors and from MDPI.

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