

Facile synthesis and crystal structure of 1,5-dimethyl-6-thioxo-1,3,5-triazinane-2,4-dione.

Autorzy

N. Shajari
A. R. Kazemizadeh
Ali Ramazani
Sang Woo Joo
Katarzyna Ślepokura
Tadeusz Lis

Ali Souldozi

Rok wydania

2015

Czasopismo

Journal of Structural
Chemistry

Numer woluminu

56

Strony

806-810

DOI

10.1134/S0022476615040332

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The title compound 1,5-dimethyl-6-thioxo-1,3,5-triazinane-2,4-dione $C_5H_7N_3O_2S$ is synthesized *via* the reaction between N,N'-dimethylthiourea and trichloroacetyl isocyanate in dichloromethane. The structure of the title compound is characterized by IR, 1H NMR, ^{13}C NMR, elemental analysis, and single-crystal X-ray diffraction. The crystal structure reveals the role of N–H...O and C–H...O hydrogen bonds, and C=O... π interactions in the arrangement of the molecules into ribbons, which are further joined to each other to form double-layers parallel to the (001) plane.

Słowa kluczowe

N, N'-dimethylthiourea, trichloroacetyl isocyanate, triazinane, X-ray diffraction

Adres publiczny

<http://dx.doi.org/10.1134/S0022476615040332>

Plik został wygenerowany dnia 2026-05-06 07:51:19

Adres w repozytorium <https://old.chem.uni.wroc.pl/pl/repozytorium/UfgCVCD>.