

The I.S.H.C. Bulletin

Recent Publications of Members

Issue 86 May 2024

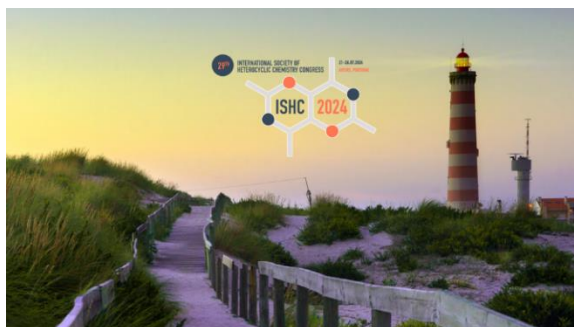
Please send any articles for inclusion in future publications to ishc@surrey.ac.uk

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**** SAVE THE DATE: 29th ISHC CONGRESS: 21-26 JULY 2024 in Aveiro, Portugal ****
Congress Website now open: <https://ishc-2024.events.chemistry.pt/>

*****REGISTRATION NOW OPEN!!!*****

List of Plenary and Invited Speakers now on Website

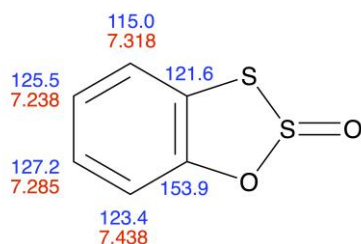


Benzo[d][1,2,3]oxadithiole 2-Oxide

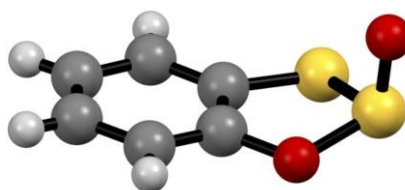
R. Alan Aitken, David B. Cordes, Arun Goyal and Aidan P. McKay

Molbank **2024**, 2024, M1803 (1–6).

DOI: 10.3390/M1803



H and C NMR data fully assigned



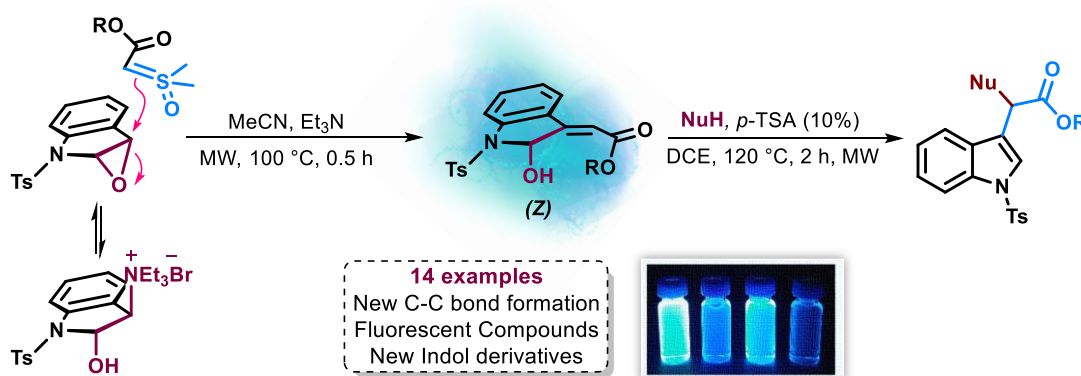
first X-ray structure of any 1,2,3-oxathiole

A simplified synthesis of the title compound is reported and its ¹H and ¹³C NMR data are fully assigned including determination of H–H and C–H coupling constants. Its X-ray structure has been determined for the first time. NMR data are also presented for the oxygen analogue.

Unveiling a Novel Strategy for Ring Opening of Epoxides: Synthesis of 2-Hydroxyindolinylidenes Using α -Ester Sulfoxonium Ylides

Viktor S. Camara, Aislan L. da Silva, Lilian C. da Luz, Fabiano S. Rodembusch, Pedro H. O. Santiago, Javier Ellena, Antonio C. B. Burtoloso

Org. Lett. **2024**, 26,1034–1039 DOI: 10.1021/acs.orglett.3c04169



The untapped potential of α -carbonyl sulfoxonium ylides in epoxide ring-opening reactions has been a notable gap in current research, with such reactivity predominantly associated with the highly reactive dimethylsulfoxonium methylide. This study introduces an innovative approach wherein an epoxide indole, formed *in situ* from 2-hydroxyindoline-3-triethylammonium bromide, undergoes reaction with α -ester sulfoxonium ylides. The outcome is the efficient synthesis of a range of 2-hydroxyindolin-3-ylidenes, demonstrating favorable yields (41-81%) and *Z/E* ratios from 4:1 to exclusive *Z* isomers. Additionally, the photophysical properties of the synthesized indolinylidenes are explored, along with their derivatization using various nucleophiles under acid catalysis.