

Sodium sulfide promoted synthesis of highly substituted pyridines

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Rok wydania

2025

Czasopismo

Phosphorus, Sulfur, and
Silicon and the Related
Elements

Numer woluminu

200

Strony

1078-1083

DOI

10.1080/10426507.2025.2571645

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

This study presents a straightforward and effective method for the synthesis of 2-amino-6-alkoxy-4-arylpyridine-3,5-dicarbonitrile derivatives. These multi-substituted pyridine compounds are prepared through a convenient pseudo three-component reaction involving arylaldehydes malononitrile, alcohols, and sodium sulfide in an aqueous medium. Key benefits of this approach include its environmentally friendly nature, high product yields, rapid reaction times, cost-effectiveness, and easy accessibility of starting materials, mild reaction conditions, and a simple purification process.

Słowa kluczowe

sodium sulfide, X-ray, pyridine, malononitrile, green chemistry

Adres publiczny

<http://dx.doi.org/10.1080/10426507.2025.2571645>