

Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

Synthesis and Antimicrobial Activity of Some Pyridyl and Naphthyl Substituted 1,2,4-Triazole and 1,3,4-Thiadiazole Derivatives

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 [Keywords](#)
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Abstract: Synthesis of new 1,2,4-tri and 1,3,4-thiadiazoles, bearing isomeric pyridyl and 1-naphthyl is reported using 1,4-disubstituted thiosemicarbazides in alkaline and acidic media, respectively. The methylthio and benzylthio derivatives of the synthesized triazoles are also reported. All of the synthesized compounds were characterized by their FT-IR, ¹H-NMR and mass spectral data. The antibacterial studies of some of the synthesized compounds against *S. aureus* and *E. coli* as MIC values are reported. None of them have important antibacterial activities.

Turk. J. Chem., **28**, (2004), 95-100.

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