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
Chemistry

## Synthesis and Characterization of Novel Azole Heterocycles Based on 2,5-Disubstituted Thiadiazole

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 [Keywords](#)  
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**Abstract:** Starting from 2-amino-5-mercapto-1,3,4-thiadiazole (1), a variety of new 1,2,4-triazino[5,4-b][1,3,4] thiadiazole (3), pyrazole (4), [1,2,4]triazolo[3,4-b][1,3,4]thiadiazole (5), phthalazine-3,6-dione (6), azo derivatives (9), pyrimidine -2,4,6-trione (11), Schiff base (12) and pyrrolidine (13) derivatives have been synthesized. All proposed structures were supported by FT-IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR elemental analysis, and MS spectroscopic data.

**Key Words:** 1,3,4-thiadiazoles, fused heterocyclic ring, Schiff bases



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