

Antioxidant Activity Studies of Novel Schiff and Mannich Bases

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Abstract : A series of Mannich bases derived from 1,2,4-triazole(3a-k and 4a-k) are synthesized by treating a Schiff base with various substituted primary/secondary amines and formaldehyde. The Schiff base is prepared by treating 3-methyl-4-amino-5-mercapto-1,2,4-triazole with 3,4-dimethoxybenzaldehyde in the presence of acid catalyst. The triazole is prepared by treating acetic acid with thiocarbohydrazide at reflux temperature. All the synthesized samples are characterised by FT-IR, ¹H-NMR, and LC-MASS spectral studies and screened for their anti-oxidant activity.

Keywords : mannich bases, anti-oxidant activity, schiff base, triazole

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