

Structural and spectral studies of thiosemicarbazones derived from 3-furaldehyde and 3-(2-furyl)prop-2-enal

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Auteur	Jouad, El Mostapha [1], Allain, Magali [2], Khan, Mustayeen A [3], Bouet, Gilles [4]
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Résumé en anglais	3-Furaldehyde thiosemicarbazone (3FTSC) and 3-(2-furyl)prop-2-enal thiosemicarbazone (FATSC) have been prepared, their structures solved and IR, ¹ H NMR spectra recorded. The thiosemicarbazone moiety in both compounds shows an <i>E</i> configuration about C1-N2 and C2-N3. Intramolecular and intermolecular hydrogen bondings occur in both the molecules. The angles between the mean planes of the furanic ring and thiosemicarbazone moiety present a significant difference in the two compounds. Moreover, the ¹ H NMR and IR spectral studies of two compounds are quite similar.
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[1] [http://okina.univ-angers.fr/publications?f\[author\]=19813](http://okina.univ-angers.fr/publications?f[author]=19813)

[2] <http://okina.univ-angers.fr/magali.allain/publications>

[3] [http://okina.univ-angers.fr/publications?f\[author\]=19837](http://okina.univ-angers.fr/publications?f[author]=19837)

[4] [http://okina.univ-angers.fr/publications?f\[author\]=83](http://okina.univ-angers.fr/publications?f[author]=83)

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