

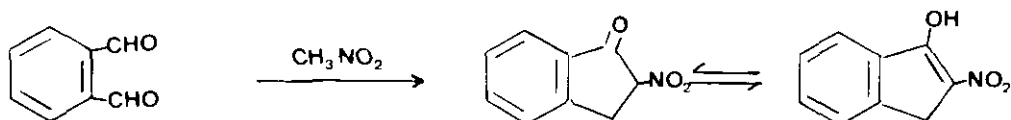
CYCLIZATION OF SOME HETEROCYCLIC DIALDEHYDES WITH NITROMETHANE

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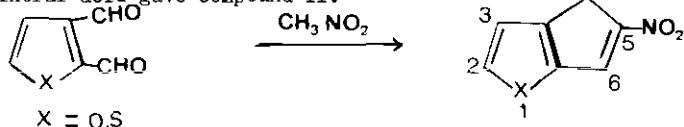
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In extension to our interest of the reactions of five membered heterocyclic o-dialdehydes¹⁻⁵, this report describes the cyclization of o-furandicarboxaldehyde and o-thiophenedicarboxaldehyde with nitromethane.

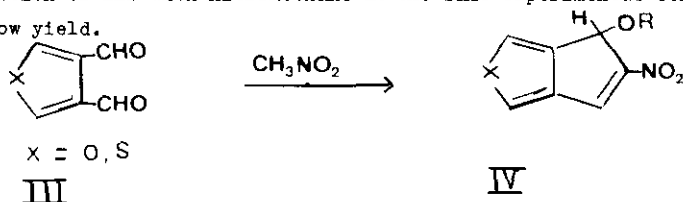
The reaction of o-phthaldehyde with nitromethane in basic medium was studied by many authors⁶⁻⁸, and they found that the obtained product was not uniform, and they ascribed this to its being a tautomeric mixture.



Firstly, the reaction of I with nitromethane in alcoholic potassium hydroxide and after acidification with mineral acid gave compound II.



Secondly, the reaction of III with nitromethane at the same experimental conditions gave compound IV in low yield.



The structure of the synthesised compounds were fully identified by deuterium labelling, correct analytical data as well as spectral studies by i.r., ^1H n.m.r. and mass spectra.

References

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