

[A0054]

Convenient synthesis of 1,2,5-(1,3,4)-oxadiazolyl-1,2,4-oxadiazoles.

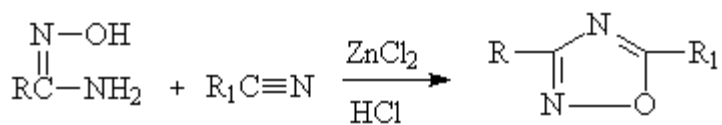
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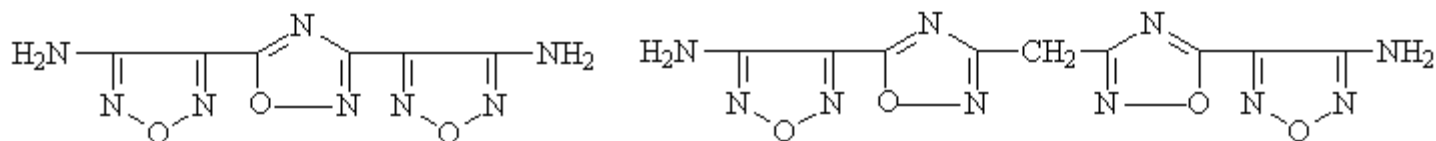
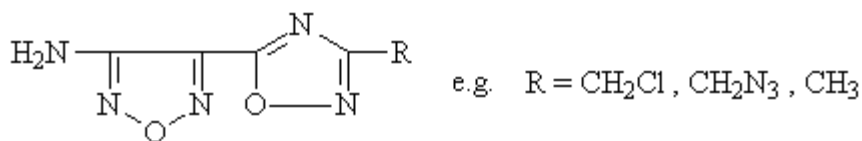
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Abstract: Convenient synthesis of 1,2,5-(1,3,4)-oxadiazolyl-1,2,4-oxadiazoles by reaction between corresponding amidoximes and nitriles in presence of $ZnCl_2$ and HCl has been elaborated.

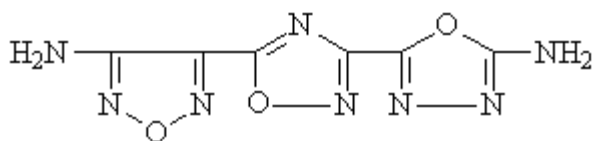
In previous papers we described efficient synthesis of 1,2,4-oxadiazoles by reaction amidoximes with nitriles (1) and investigated the mechanism of the reaction (2).



At present paper using our approaches we synthesize unknown 1,2,4-oxadiazoles containing 1,2,5-(1,3,4)-oxadiazoles. We failed to obtain these compounds by the literature methods.



The approach allows to synthesize 1,2,4-oxadiazole having both 1,2,5- and 1,3,4-oxadiazoles.



1. Yarovenko V.N., Taralashvili V.K., Zavarzin I.V., Krayushkin M.M., Tetrahedron, 1990, Vol.46, N11, p.3941
2. Yarovenko V.N., Ugrak B.I., Krayushkin M.M., Shirinyan V.Z., Zavarzin I.V., Russian Chemical Bulletin, 1994, Vol.43, N4, p.627...

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