

研究简报

3-巯基-5-芳香基-4-芳基亚胺基-4H-1,2,4-三唑的合成及波谱研究

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收稿日期 2004-2-27 修回日期 2004-10-12 网络版发布日期 接受日期

摘要 5-取代-4-氨基-3-巯基-1,2,4-三唑与芳香醛在弱酸性乙醇溶液中反应, 合成了一系列3-巯基-5-芳香基-4-芳基亚胺基-4H-1,2,4-三唑(**3a**~**3d**)及水溶性的3-巯基-5-(D-葡萄糖-1-基)-4-(4-氯代苯基)亚胺基-4H-1,2,4-三唑(**3e**)新化合物. 以元素分析, IR, NMR, MS实验技术对其结构进行了表征, 并研究其NMR波谱特征.

关键词 [3-巯基-5-芳香基-4-芳基亚胺基-4H-1,2,4-三唑](#) [3-巯基-5-\(D-葡萄糖-1-基\)-4-\(4-氯代苯基\)亚胺基-4H-1,2,4-三唑](#) [合成](#) [NMR](#)

分类号

Synthesis and NMR Study of 4-(Arylmethylidene)-amino-5-aryl-3- mercapto-4H-1,2,4-triazoles

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Abstract 4-(Arylmethylidene)amino-5-aryl-3-mercapto-4H-1,2,4-triazoles (**3a**~**3d**) and 4-(4-chlorophenylmethylidene)amino-5-(D-glucopentitol-1-yl)-3-mercapto-4H-1,2,4-triazole (**3e**) were synthesized in good yields by reaction of 4-amino-3-mercapto-5-substituent-1,2,4-triazole with aryl aldehyde in ethanolic medium. Their structures were confirmed by elemental analysis, IR, NMR, MS spectra and the characteristics of NMR spectra were also discussed.

Key words [4-\(arylmethylidene\)amino-5-aryl-3-mercapto-4H-1,2,4-triazole](#) [4-\(4-chlorophenylmethylidene\)amino-5-\(D-glucopentitol-1-yl\)-3-mercapto-4H-1,2,4-triazole](#) [synthesis](#) [NMR](#)

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