

عنوان مقاله:

The Synthesis and characterization of 4-(2-(3-chloro-2-hydroxypropyl)-2H-tetrazol-5-yl)-2-methoxyphenol

محل انتشار:

همایش منطقه ای شیمی (سال: 1389)

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خلاصه مقاله:

In recent years a new research field has been developed in the tetrazole chemistry, coordination complexes containing a tetra- zole group have been the subject of an intense research effort due to their variety of intriguing architectures and their potential applications in advanced materials [1]. In this research work, we synthesized some new compounds of alkyl tetrazoles. Therefore, 4-hydroxy-3-methoxybenzaldehyd (1) in reaction with NH_2OH was converted to 4-hydroxy-3-methoxybenzaldehyde oxime (2). The obtained compound was dehydrated by acetic anhydride to give 4-hydroxy-3-methoxybenzonitrile (3). Then, 2-methoxy-4-(2H-tetrazol-5-yl)phenol(4) was prepared by [2+3] cycloaddition reaction between (3) and NaN_3 . Compound 4-(2-(3-chloro-2-hydroxypropyl)-2H-tetrazol-5-yl)-2-methoxyphenol (5) produced from the reaction of compound (4) with epichlorohydrine. The structure of all the synthesized compounds were characterized and confirmed by FT-IR and NMR spectroscopy techniques.

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