



Synthesis and characterization of some new polymers that contained triazole confused with thiadiazole ring

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ABSTRACT

Four of α, ω - bis [1-amino-2-thiol-1,3,4-triazole-5-yl]alkane (A_{1-4}) were prepared from the reaction of xanthate salt (derived from the reaction of dihydrazide with CS_2 in basic medium) with hydrazine hydrate. Bis-triazole derivatives (A_{1-4}) react with dicarboxylic acid chloride in DMSO as solvent. The new polymers (B_{1-16}) were isolated. Structure conformation of all bis-triazole and polymers were identified by FT-IR and UV-Vis. Spectroscopic techniques and some of them by H^1 NMR spectra.

Keywords: triazole, polymer, dicarboxylic acid.
