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CoordinatedtetradentateDithioacetylacetonateoftrivalenttran sitionmetalions –Synthesisandreactivity

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Abstract:Coordinated chelates of tetradentated i thioacetylacetonates of metal (III) have been synthesized in the modified simple method and their reactivity were reported with halogenating agentsand α -naphthylisocyanate. The coordinated β -diketonatesoftransition metal (III) ions showed remarkable reactivityat γ - CH of the ligandmoieties. The quasiaromatic character of these coordinated compoundsisconfirmedbyconductingha logenationand α – naphthylisocyanationreaction. The activity of dithioacetylacetonates of metal (III) iscompared with that of metal (II). The analytical data of the parent and reacted dithiochelate complexes were also studied. The products have been characterized by analytical, IR, NMR and electronic spectral studies. The activity amongthe three different metals in different series of transition metalisalso compared and discussed with experimental evidences.

Keywords: dithioacetylacetonate, α -naphthylisocyanation, halogenations, physico-chemical studies.

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