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Thermaldecomposition of cobalt (III), nickel (II), copper (II), palladium (II) and platinum (II) complexes of N-ethyl-N'-(4'-methylthiazol)-2ylthiourea

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Thermal decomposition of Co(III), Cu(II), Ni(II), Pd(II), and Pt(II) complexes of N-ethyl-N'-(4'-methylthiazol)-2ylthiourea (EthMeTzTu), HL, have been studied by TG, DTG, and DTA curves. The complexes have the molecular formulae as CoL3, [CuLCl(H2O)] and [CuL2.2(H2O)] a square for ML2 (M = Ni(II), Pd(II) and Pt(II), and [Pd(HL)Cl2]. The TG curves show that all complexes decompose in two stage to yield a free metal in CoCl3 and PdL2 complexes, while NiL2, [CuL2.2H2O] and PtL2 gave NiS, CuS and PtS respectively, [CuLCl(H2O)] gave Cu(SCN)Cl, [Pd(HL)Cl2].2HCl gave Pd(SCN)2

Biography

Suhair Mansour Jambi has completed his PhD in Organic Chemistry at the University of Jeddah College of Science, Department of Chemistry (2011). She is working as an Associate Professor in the Faculty of Science for Girls at the University of Jeddah.

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