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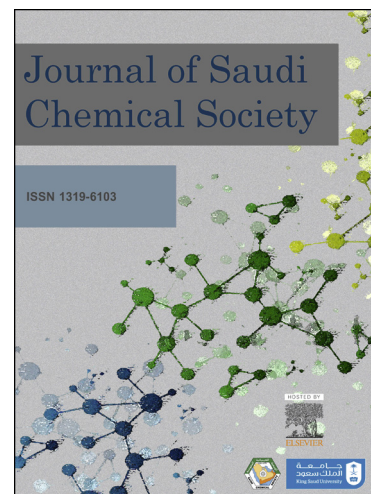
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Ru(III), Cr(III), Fe(III) complexes of Schiff base ligands bearing phenoxy groups: Application of as a catalyst for the synthesis of vitamin K₃

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Ru(III), Cr(III), Fe(III) Complexes of Schiff Base Ligands Bearing Phenoxy Groups: Application as Catalysts in The Synthesis of Vitamin K₃

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Abstract. Two polydentate Schiff base ligands and their Ru(III), Cr(III) and Fe(III) complexes were synthesized and characterized by elemental analysis (C, H, N), UV/Vis, FT IR, ¹H and ¹³C NMR, LC-MS/MS, molar conductivity and magnetic susceptibility techniques. The absorption bands in the electronic spectra and magnetic moment measurements verified an octahedral environment around the metal ions in the complexes. The thermal stabilities were investigated using TGA. The synthesized complexes were used in the catalytic oxidation of 2-methyl naphthalene (2MN) to 2-methyl-1,4-naphthoquinone; Vitamin K₃, menadione,

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