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Ring Isomerism in Cadmium (II) Complexes of Vitamin K3 analog with methyl derivative

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ABSTRACT

2-Hydroxy-3-methyl-1,4-naphthalenedione (Phthiocol),5-Hydroxy-2-methyl-1,4- naphthalenedione (Plumb agin) and their Cadmium (II) complex were synthesized. These two complexes were studied on the basis of a new concept "Ring Isomerism" with thermal, Infrared and Ultraviolet Spectral study. Phthiocolate form five membered ring while Plumbaginate forms a six membered ring chelates with cadmium (II).

Keywords: Phthiocol, Plumbagin, Ring Isomerism, Cadmium (II) Complex.