



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.5,pp 834-843,2017

Thermochemical Study of Mixed Ligand Complexes CyclohexanoneSemicarbazone

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Abstract:The mixed ligand complexes of the type $[ML_1L_2]Cl_2$ have been synthesized, by the reactions of metal chlorides with two different ligands in 1:1:1 molar ratios. [Where $M=Cr(III), Co(II)$ and $Ni(II)$ $L_1=Pyruvic$ acid semicarbazone and $L_2=Cyclohexanonesemicarbazone$. The resulting complexes have been characterized on the basis of elemental analysis, magnetic measurement, IR and Electronic spectra, conductivity measurement, thermal analysis, antimicrobial activities. The metal complexes show octahedral nature bonding through oxygen and nitrogen donor atoms.

Key words:Mixed ligand, cyclohexanone, pyruvic acid, semicarbazone, transition metals.

P.R. Shirode /International Journal of ChemTech Research, 2017,10(5): 834-843.
