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**Abstract:** In the present work, we describe the isolation of some lanthanide(III) chlorides coordination compounds with 4[(furan-2-ylmethylene)amino]-1,5-dimethyl-2-phenyl pyrazol-3-one (FDPPO) and isonicotinic acid(3',4',5'-trimethoxybenzylidene)hydrazide (ITMBH) with the general composition  $[Ln(L)_2Cl_3]$  ( $Ln = La, Pr, Nd, Sm, Gd, Tb, Dy$  or  $Ho$ ;  $L = FDPPO$  or  $ITMBH$ ). All the isolated compounds were characterized through various physico-chemical studies. The coordinating ligands FDPPO or ITMBH act as neutral bidentate N and O-donors in the present compounds. The central metal ion displays the coordination number 7 in these complexes. Thermal stabilities of these complexes were also studied through thermogravimetric analysis.

**Key Words:** Lanthanide(III) complexes, 4[(Furan-2-ylmethylene)amino]-1,5- dimethyl-2-phenyl pyrazol-3-one, Isonicotinic acid(3',4',5'- trimethoxybenzylidene)hydrazide, Coordination number 7

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