二茂基镧系硝基甲烷阴离子衍生物的合成及其热稳定性

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### Synthesis and thermal stability of dicyclopentadienyl lanthanide methanenitronates

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Abstract Five new title compounds have been synthesized by the reaction of Cp3Ln (Cp = C5H5; Ln = Nd, Sm, Gd, Dy, Yb) with nitromethane in THF (tetrahydrofuran) at room temperature All the compounds were characterized by elemental anal., IR and MS spectra, indicating that they are monomers with carbonitronate groups bonded bidentately to metals by the oxygen atoms of nitro groups. Compounds of Nd and Sm are thermally unstable, which tend to disproportionate into a mixture of Cp3Nd (or Sm) and (CH2NO2)3Nd (or Sm) at above 120 癥.

Key wordsNITRO COMPOUNDSMETHANE PINFRARED SPECTROPHOTOMETRYELEMENTALANALYSISMASS SPECTROGRAPHYTHERMAL STABILITYCYCLOPENTADIENE PYTTERBIUMCOMPLEXNEODYMIUM COMPLEXGADOLINIUM COMPLEXSAMARIUM COMPLEXDYSPROSIUM COMPLEXLANTHANIDE SERIES COMPOUNDS

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