DSC Investigations of the Phase Transitions of $[M(H_2O)_6](NO_3)_2$, where M = Mn, Co, Ni, Cu and Zn

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The phase transitions of $[M(H_2O)_6](NO_3)_2$, where M = Mn^{2+}, Co^{2+}, Ni^{2+}, Cu^{2+} or Zn^{2+} have been studied at 100 - 400 K by DSC. Two phase transitions connected with a two-stage melting process have been found for these five compounds. For the compound with M = Co, besides the two melting points a solid-solid phase transition at 272 K has been found.

Key words: Hexaaquametal(II) nitrates; Phase Transitions; Melting Points; DSC Method.