Supporting Information for

Hydrogen-bond Assisted Co-crystallization of a Bimetallic Mn$^{III}$$_2$Ni$^{II}$$_2$
Cluster and a Ni$^{II}$$_2$ Cluster unit: Synthesis, Structure, Spectroscopy and
Magnetism

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Figure S1: An X-ray crystallographic view of compound 1 with two structurally similar [Mn₂Ni₂] units and a [Ni₂] unit. Hydrogen atoms are not shown for clarity. Colour codes for atoms: blue, N; grey, C; green, Cl; dark green, Ni; red, O.

Figure S2: The IR spectra of compound 1.
**Figure S3:** The ESI-MS spectroscopy showing the isotopic mass fragments for the tetranuclear unit of compound **1**.

**Figure S4:** Ligand-field spectrum of compound **1** with assigned transition bands.
Figure S5: Isothermal magnetization plot for compound 1.