

Supplementary Materials:

[μ_2 -O,O',O'',O'''-Bis(1,2-dithiooxalato-S,S')nickel(II)]bis[-O,O'-bis(1,2-dithiooxalato-S,S')-nickel(II)pentaqua holmium(III)]hydrate, [Ho₂Ni₃(dto)₆(H₂O)₁₀]

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Table S1. Crystallographic data and refinement parameters for the complex Ho₂Ni₃(dto)₆(H₂O)₁₀.

Compound	Ho ₂ Ni ₃
Empirical formula	C ₁₂ H ₄₁ Ho ₂ Ni ₃ O _{32.5} S ₁₂
<i>M</i> /g·mol ⁻¹	1596.16
Crystal color	violet
Crystal size/mm	0.2 × 0.25 × 0.3
Crystal form	prism
Crystal system	monoclinic
Space group	<i>P</i> 2 ₁ / <i>c</i>
<i>a</i> /Å	10.2747(7)
<i>b</i> /Å	11.3250(5)
<i>c</i> /Å	20.4016(13)
α /°	90
β /°	98.670(5)
γ /°	90
<i>V</i> /Å ³	2346.8(2)
<i>Z</i>	2
<i>F</i> (000)	1566
Density/mg·m ⁻³	2.26
μ /mm ⁻¹	5.14
θ range/°	2.00–25.00
<i>R</i> _{int}	0.0454
Refl. measured	14833
Refl. independent	4132
Parameters	305
<i>R</i> ₁ / <i>wR</i> ₂ [<i>I</i> > 2σ(<i>I</i>)]	0.0513/0.1220
<i>R</i> ₁ / <i>wR</i> ₂ (all data)	0.0537/0.1227
Goodness of fit	1.486
Max. diff. peak/hole/e·Å ³	1.458/−1.067

Powder Diffraction

The investigation of powder diffraction showed crystalline structures. Figure S1 presents the X-ray powder diagram of the title complex Ho₂Ni₃.

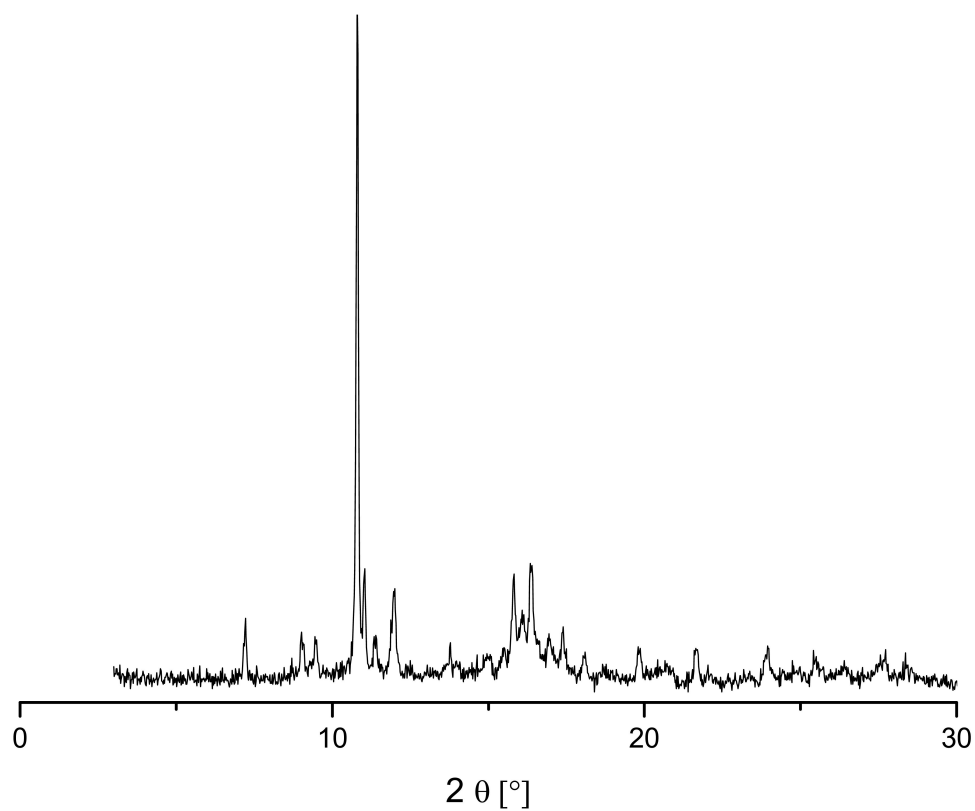


Figure S1. Experimental X-ray powder patterns for Ho_2Ni_3 .

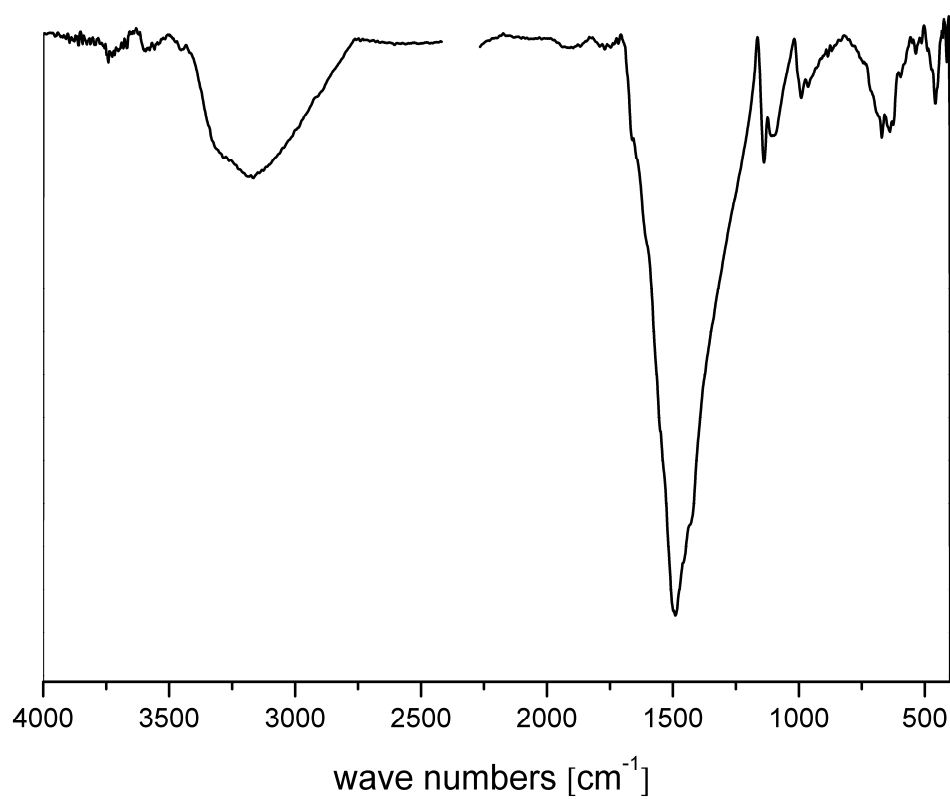


Figure S2. IR absorption spectrum (KBr) of Ho_2Ni_3 .