

Crystal structure of tetra-aqua-bis(μ_2 -thiophene-3,4-dicarboxylato- $\kappa^4 O, O':O'',O'''$)-bis(thiophene-3-carboxyl-4-carboxylato- $\kappa^1 O$)-bis(1,10-phenantroline- $\kappa^2 N, N'$)disamarium(III), $C_{24}H_{17}N_2O_{10}S_2Sm$

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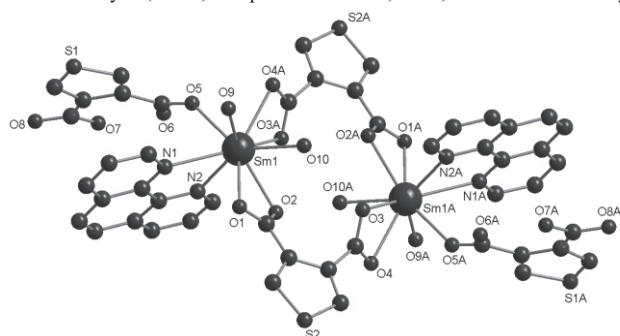


Table 2. continued.

Atom	Site	<i>x</i>	<i>y</i>	<i>z</i>	<i>U</i> _{iso}
H(12)	2i	0.2920	0.5830	0.0712	0.058
H(15)	2i	0.4072	−0.1281	0.0219	0.043
H(16)	2i	0.7703	−0.2232	0.1972	0.037

Table 3. Atomic coordinates and displacement parameters (in Å²).

Atom	Site	<i>x</i>	<i>y</i>	<i>z</i>	<i>U</i> ₁₁	<i>U</i> ₂₂	<i>U</i> ₃₃	<i>U</i> ₁₂	<i>U</i> ₁₃	<i>U</i> ₂₃
Sm(1)	2i	0.24419(2)	0.07067(2)	0.37729(2)	0.01716(7)	0.01706(7)	0.02054(8)	0.00357(5)	−0.00010(4)	0.00317(4)
N(1)	2i	0.1058(2)	0.1428(2)	0.1935(2)	0.025(1)	0.026(1)	0.022(1)	0.0066(8)	0.0006(8)	0.0002(8)
N(2)	2i	0.3484(2)	0.2892(2)	0.3131(2)	0.024(1)	0.025(1)	0.024(1)	0.0058(8)	0.0026(8)	0.0047(8)
O(1)	2i	0.2947(2)	−0.0370(2)	0.2005(2)	0.034(1)	0.077(2)	0.032(1)	0.030(1)	−0.0071(8)	−0.012(1)
O(2)	2i	0.4734(2)	0.0531(2)	0.3348(2)	0.0274(9)	0.0257(9)	0.0303(9)	0.0064(7)	0.0055(7)	−0.0001(7)
O(3)	2i	0.5927(2)	−0.1573(2)	0.4408(1)	0.0243(9)	0.0300(9)	0.0231(9)	−0.0012(7)	0.0035(7)	0.0053(7)
O(4)	2i	0.7955(2)	−0.0511(2)	0.4162(1)	0.0192(8)	0.0295(9)	0.0278(9)	0.0014(7)	0.0014(7)	0.0060(7)