Crystal structure of di(2,2'-bipyridine)di[μ -(2,3-dimethoxybenzoato-*O,O'*)]di[μ -(2,3-dimethoxybenzoato-*O,O':O'*)]di(nitrato)diterbium(III), $\text{Tb}_2(\text{NO}_3)_2(\text{C}_9\text{H}_9\text{O}_4)_4(\text{C}_{10}\text{H}_8\text{N}_2)_2$

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Received September 22, 2003, accepted and available on-line November 15, 2003; CCDC-No. 1267/1157

Table 2. Continued.

Atom	Site	<i>x</i>	<i>y</i>	<i>z</i>	<i>U</i> _{iso}
H(4)	2i	−0.1490	0.3840	0.1312	0.042
H(3)	2i	−0.2508	0.2748	0.0541	0.052
H(19A)	2i	0.0711	−0.4489	0.5486	0.118
H(19B)	2i	−0.0583	−0.3409	0.5676	0.118
H(19C)	2i	0.0771	−0.3232	0.5860	0.118
H(27A)	2i	0.1939	0.3156	−0.4013	0.094
H(27B)	2i	0.2129	0.3329	−0.2907	0.094
H(27C)	2i	0.1459	0.2230	−0.2987	0.094

Table 2. Continued.

Atom	Site	<i>x</i>	<i>y</i>	<i>z</i>	<i>U</i> _{iso}
H(28A)	2i	0.3606	0.0669	−0.6437	0.093
H(28B)	2i	0.2804	0.2133	−0.6715	0.093
H(28C)	2i	0.2064	0.1011	−0.6201	0.093
H(18A)	2i	−0.0051	−0.0369	0.3814	0.083
H(18B)	2i	−0.0860	0.0176	0.2852	0.083
H(18C)	2i	0.0428	0.0630	0.2839	0.083
H(24)	2i	0.3136	−0.0996	−0.5213	0.057
H(25)	2i	0.3598	−0.2804	−0.3840	0.059

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
O(6)	2i	0.4901(6)	−0.1287(6)	−0.1236(5)	0.027(4)	0.022(4)	0.031(4)	0.001(3)	−0.008(3)	−0.007(3)
Tb(1)	2i	0.36482(5)	0.16384(5)	0.00157(4)	0.0195(3)	0.0149(2)	0.0180(2)	0.0003(2)	−0.0011(2)	−0.0041(2)
O(2)	2i	0.4253(7)	−0.0850(7)	0.0897(5)	0.031(4)	0.027(4)	0.023(4)	−0.005(3)	0.000(3)	−0.002(3)
N(3)	2i	0.3964(9)	0.4149(9)	−0.1279(7)	0.037(6)	0.020(5)	0.030(5)	0.002(5)	0.015(5)	−0.005(4)
O(5)	2i	0.3310(6)	0.0559(7)	−0.1204(5)	0.028(4)	0.031(4)	0.034(4)	0.008(3)	−0.008(3)	−0.021(3)
C(11)	2i	0.3282(9)	−0.065(1)	0.1610(7)	0.017(5)	0.031(6)	0.020(5)	−0.010(5)	0.005(4)	−0.009(5)
O(4)	2i	0.0538(7)	−0.2913(9)	0.4385(6)	0.026(4)	0.067(6)	0.045(5)	−0.023(4)	0.009(4)	0.008(4)
C(20)	2i	0.3968(9)	−0.0375(9)	−0.1625(7)	0.017(5)	0.019(5)	0.025(5)	−0.005(4)	0.000(4)	−0.007(4)
C(10)	2i	0.306(1)	0.403(1)	0.1439(8)	0.026(6)	0.026(6)	0.041(7)	0.000(5)	−0.005(5)	−0.009(5)
N(1)	2i	0.1107(7)	0.2293(8)	0.0048(6)	0.017(4)	0.025(5)	0.029(5)	−0.002(4)	0.000(4)	−0.006(4)
O(1)	2i	0.2519(6)	0.0467(7)	0.1547(5)	0.023(4)	0.021(4)	0.038(4)	0.002(3)	0.009(3)	0.000(3)
O(7)	2i	0.3380(7)	0.1800(7)	−0.3372(6)	0.040(5)	0.027(4)	0.045(5)	−0.006(4)	−0.018(4)	−0.009(4)
C(26)	2i	0.377(1)	−0.176(1)	−0.2834(8)	0.044(7)	0.025(6)	0.026(6)	−0.010(5)	−0.006(5)	−0.008(5)
N(2)	2i	0.2389(8)	0.3419(8)	0.1025(6)	0.027(5)	0.017(4)	0.021(4)	0.000(4)	−0.006(4)	−0.007(4)
C(14)	2i	0.178(1)	−0.283(1)	0.3951(9)	0.027(6)	0.038(7)	0.036(6)	−0.014(5)	−0.002(5)	−0.010(5)
C(17)	2i	0.424(1)	−0.257(1)	0.2938(7)	0.021(5)	0.028(6)	0.021(5)	0.001(5)	−0.001(4)	−0.003(4)
O(3)	2i	0.0763(6)	−0.1160(7)	0.2585(5)	0.019(4)	0.043(5)	0.033(4)	−0.003(3)	−0.006(3)	0.000(4)
O(10)	2i	0.3071(7)	0.3612(7)	−0.1364(6)	0.032(4)	0.026(4)	0.045(5)	−0.010(4)	−0.009(4)	0.000(4)
C(13)	2i	0.188(1)	−0.187(1)	0.3033(7)	0.034(6)	0.028(6)	0.013(5)	−0.012(5)	0.001(5)	0.001(4)
C(16)	2i	0.411(1)	−0.350(1)	0.3833(8)	0.028(6)	0.032(6)	0.035(6)	−0.003(5)	−0.012(5)	0.004(5)
C(15)	2i	0.290(1)	−0.364(1)	0.4338(8)	0.039(7)	0.032(6)	0.022(6)	−0.016(5)	−0.003(5)	0.004(5)
C(22)	2i	0.3366(9)	0.056(1)	−0.3477(7)	0.021(5)	0.032(6)	0.021(5)	−0.009(5)	0.000(4)	−0.007(5)
C(8)	2i	0.111(1)	0.535(1)	0.2155(8)	0.034(7)	0.031(6)	0.037(7)	0.004(5)	0.008(5)	−0.020(5)
O(9)	2i	0.4737(7)	0.3529(7)	−0.0601(6)	0.027(4)	0.036(5)	0.041(5)	−0.009(4)	0.000(4)	−0.003(4)
C(9)	2i	0.245(1)	0.501(1)	0.1998(8)	0.039(7)	0.032(6)	0.034(6)	−0.002(5)	−0.007(5)	−0.015(5)
C(12)	2i	0.310(1)	−0.172(1)	0.2529(8)	0.046(7)	0.020(5)	0.022(6)	−0.010(5)	−0.007(5)	−0.005(4)
C(21)	2i	0.3676(9)	−0.0513(9)	−0.2655(7)	0.025(6)	0.019(5)	0.025(5)	−0.003(4)	−0.006(4)	−0.012(4)
C(1)	2i	0.047(1)	0.169(1)	−0.0397(8)	0.029(6)	0.024(6)	0.040(7)	−0.005(5)	−0.007(5)	−0.015(5)
O(11)	2i	0.4062(9)	0.5210(8)	−0.1826(7)	0.062(6)	0.024(5)	0.072(7)	−0.010(4)	0.008(5)	0.009(5)
C(7)	2i	0.040(1)	0.475(1)	0.1753(8)	0.022(6)	0.035(6)	0.033(6)	−0.002(5)	0.004(5)	−0.011(5)
C(5)	2i	0.037(1)	0.310(1)	0.0678(7)	0.025(6)	0.023(5)	0.019(5)	−0.006(5)	0.001(4)	−0.001(4)
C(2)	2i	−0.086(1)	0.184(1)	−0.0260(8)	0.024(6)	0.034(6)	0.044(7)	−0.022(5)	0.001(5)	−0.010(5)
C(6)	2i	0.106(1)	0.377(1)	0.1166(8)	0.024(6)	0.017(5)	0.034(6)	0.003(4)	−0.003(5)	0.004(5)
C(4)	2i	−0.100(1)	0.328(1)	0.0870(9)	0.023(6)	0.041(7)	0.041(7)	−0.003(5)	0.002(5)	−0.019(6)
C(3)	2i	−0.160(1)	0.264(1)	0.0407(9)	0.023(6)	0.052(8)	0.052(8)	−0.004(6)	−0.002(6)	−0.012(7)
C(19)	2i	0.034(1)	−0.356(2)	0.543(1)	0.07(1)	0.09(1)	0.053(9)	−0.020(9)	0.017(8)	0.016(9)
O(8)	2i	0.2930(8)	0.1483(8)	−0.5217(6)	0.060(6)	0.047(5)	0.028(4)	−0.010(4)	−0.016(4)	0.001(4)
C(27)	2i	0.212(1)	0.270(1)	−0.332(1)	0.07(1)	0.039(8)	0.09(1)	0.007(7)	−0.045(9)	−0.030(8)
C(28)	2i	0.284(1)	0.131(2)	−0.6222(8)	0.08(1)	0.09(1)	0.012(6)	−0.004(8)	−0.017(6)	−0.001(6)
C(18)	2i	0.001(1)	−0.009(1)	0.306(1)	0.030(7)	0.051(9)	0.07(1)	0.002(6)	0.000(7)	−0.010(7)
C(24)	2i	0.327(1)	−0.087(1)	−0.4570(9)	0.073(9)	0.049(8)	0.023(6)	−0.006(7)	−0.024(6)	−0.011(6)
C(23)	2i	0.318(1)	0.037(1)	−0.4446(8)	0.031(6)	0.037(7)	0.022(6)	0.002(5)	−0.012(5)	0.001(5)
C(25)	2i	0.356(1)	−0.196(1)	−0.375(1)	0.062(9)	0.038(7)	0.055(8)	−0.008(6)	−0.016(7)	−0.023(7)

Acknowledgments. We are grateful to the Natural Science Foundation of Beijing for the grant No. 2022007 and the Science and Technology Foundation of Beijing for people studied abroad.

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