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Table IS. Summary of Crystallographic Data for $[(\text{Ni-2}^*)_2(\text{CH}_2)_3][\text{NiBr}_4]$ and $[\text{Ni-2}^*\text{Me}]\text{I}$.

Complex	$[(\text{Ni-2}^*)_2(\text{CH}_2)_3][\text{NiBr}_4]$	$[\text{Ni-2}^*\text{Me}]\text{I}$
Empirical Formula	$\text{C}_{33}\text{H}_{72}\text{Br}_4\text{N}_4\text{Ni}_3\text{O}_7\text{S}_4$	$\text{C}_{15}\text{H}_{31}\text{N}_2\text{O}_2\text{S}_2\text{NiI}$
Form. Weight (amu)	1260.96	521.1
Radiation	Cu-K α , $\lambda = 1.54178 \text{ \AA}$	Cu-K α , $\lambda = 1.54178 \text{ \AA}$
Space Group	$P2_1/c$	$Pna2_1$
Unit Cell Dimensions		
a (Å)	15.658(3)	19.387 (2)
b (Å)	19.522(4)	12.677 (2)
c (Å)	17.510(4)	8.206 (2)
α (°)	90	90
β (°)	111.37 (3)	90
γ (°)	90	90
V (Å ³)	4984(2)	2016.8 (6)
ρ (gcm ⁻³)	1.680	1.716
μ (mm ⁻¹)	6.998	15.526
Z	4	4
Temperature (K)	293	293
Index Ranges	$0 \leq h \leq 15$ $0 \leq k \leq 21$ $-19 \leq l \leq 18$	$0 \leq h \leq 21$ $-14 \leq k \leq 0$ $0 \leq l \leq 9$
Unique Obs. Refl'ns	$[I \geq 2.0 \sigma(I)]$	1483 $[I \geq 1.0 \sigma(I)]$
Residuals ^a		
R	0.0850	0.0425
wR	0.1741	0.0505
S	1.063	1.48
g	.00041	.00001

^a Residuals defined: $R = \Sigma |F_o - F_c| / \Sigma F_o$; $R_w = \{[\Sigma w (F_o - F_c)^2] / [\Sigma w (F_o)^2]\}^{1/2}$

$S = \{[\Sigma w (F_o - F_c)^2] / [N_{\text{data}} - N_{\text{parameters}}]\}^{1/2}$

Table IIS. Atomic coordinates ($\times 10^4$) and equivalent isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for $[(\text{Ni}-2^*)_2(\text{CH}_2)_3][\text{NiBr}_4]$.

	x	y	z	U(eq) ^{a,b}
Ni(1)	2317(2)	9491(2)	895(2)	35(1)
Ni(2)	2265(2)	13329(2)	65(2)	38(1)
Ni(3)	3968(2)	6279(2)	2537(2)	26(1)
Br(1)	2398(2)	6312(2)	1649(2)	84(1)
Br(2)	4948(2)	6432(1)	1762(2)	60(1)
Br(3)	4392(2)	7074(2)	3663(2)	66(1)
Br(4)	4327(2)	5145(1)	3129(2)	50(1)
S(1)	1607(4)	9906(3)	1620(3)	38(1)
S(2)	2411(4)	10506(3)	422(3)	37(1)
S(3)	1976(4)	12879(3)	1088(4)	44(2)
S(4)	1247(4)	12705(3)	-796(4)	48(2)
O(1)	2281(9)	9925(8)	2467(8)	48(4)
O(2)	1090(9)	10541(7)	1375(8)	44(4)
O(3)	1737(9)	12168(8)	-1059(9)	51(4)
O(4)	482(10)	12468(8)	-593(9)	57(4)
O(5)	586(29)	16502(22)	-536(25)	253(19)
O(6)	3405(22)	6433(18)	-586(20)	192(13)
O(7)	4193(12)	9741(9)	3088(13)	104(8)
N(1)	2054(10)	8574(8)	1224(10)	37(4)
N(2)	3130(10)	9105(8)	353(10)	35(4)
N(3)	3340(12)	13833(9)	850(11)	44(5)
N(4)	2327(12)	13844(8)	-880(10)	43(5)
C(1)	816(14)	9204(10)	1545(13)	39(6)
C(2)	1440(14)	8593(11)	1718(14)	44(6)
C(3)	933(14)	8261(12)	1775(14)	48(6)
C(4)	596(15)	8121(12)	1357(16)	58(7)
C(5)	3904(14)	8716(11)	1010(13)	45(6)
C(6)	1610(13)	8150(11)	474(12)	35(5)
C(7)	1661(14)	8441(12)	-319(14)	49(6)
C(8)	2611(14)	8609(11)	-303(15)	48(6)
C(9)	3552(14)	9659(10)	29(13)	40(5)

C(10)	2960(13)	10297(11)	-309(12)	36(5)
C(11)	409(16)	9277(13)	2219(15)	61(7)
C(12)	66(12)	9253(10)	698(10)	31(5)
C(13)	2149(14)	10136(11)	-1121(11)	43(6)
C(14)	3524(14)	10867(10)	-444(12)	40(6)
C(15)	3271(15)	10965(11)	1258(13)	46(6)
C(16)	3128(14)	11768(10)	1119(13)	39(5)
C(17)	2252(17)	11994(11)	1206(15)	54(7)
C(18)	2823(15)	13363(12)	1934(14)	50(6)
C(19)	3599(15)	13553(11)	1693(11)	40(6)
C(20)	3142(14)	14590(10)	822(13)	40(6)
C(21)	2279(16)	14764(11)	106(13)	53(6)
C(22)	2191(16)	14600(11)	-750(12)	49(6)
C(23)	4158(14)	13706(12)	608(14)	46(6)
C(24)	4071(15)	14008(13)	-193(13)	50(6)
C(25)	3258(14)	13735(13)	-941(14)	54(7)
C(26)	1651(14)	13619(12)	-1676(14)	50(6)
C(27)	800(16)	13311(11)	-1670(14)	50(6)
C(28)	2264(14)	13958(10)	2067(13)	43(6)
C(29)	3175(18)	12947(12)	2727(14)	65(7)
C(30)	275(16)	12912(13)	-2439(14)	66(8)
C(31)	185(12)	13800(10)	-1426(12)	64(8)
C(32)	114(12)	15765(10)	-678(12)	106(11)
C(33)	2299(22)	6758(18)	-954(22)	116(12)

^a $U(\text{eq})$ is defined as one third of the trace of the orthogonalized U_{ij} tensor.

^b Estimated standard deviations are given in parenthesis.

Table III. Complete list of bond lengths (Å)^a for [(Ni-2*)₂(CH₃)₃][NiBr₄].

Ni(1)-N(1)	1.97(2)	N(3)-C(19)	1.49(2)
Ni(1)-N(2)	1.99(2)	N(3)-C(20)	1.51(2)
Ni(1)-S(1)	2.129(6)	N(3)-C(23)	1.51(3)
Ni(1)-S(2)	2.174(6)	N(4)-C(26)	1.48(3)
Ni(2)-N(4)	1.97(2)	N(4)-C(25)	1.52(3)
Ni(2)-N(3)	2.00(2)	N(4)-C(22)	1.52(3)
Ni(2)-S(4)	2.133(7)	C(1)-C(2)	1.50(3)
Ni(2)-S(3)	2.185(7)	C(1)-C(12)	1.52(3)
Ni(3)-Br(1)	2.383(4)	C(1)-C(11)	1.54(3)
Ni(3)-Br(2)	2.405(4)	C(3)-C(4)	1.50(3)
Ni(3)-Br(3)	2.410(4)	C(4)-C(5)	1.47(3)
Ni(3)-Br(4)	2.423(4)	C(6)-C(7)	1.53(3)
S(1)-O(2)	1.457(14)	C(7)-C(8)	1.51(3)
S(1)-O(1)	1.473(14)	C(9)-C(10)	1.54(3)
S(1)-C(1)	1.82(2)	C(10)-C(14)	1.49(3)
S(2)-C(15)	1.82(2)	C(10)-C(13)	1.56(3)
S(2)-C(10)	1.83(2)	C(15)-C(16)	1.59(3)
S(3)-C(17)	1.78(2)	C(16)-C(17)	1.50(3)
S(3)-C(18)	1.85(2)	C(18)-C(19)	1.47(3)
S(4)-O(4)	1.44(2)	C(18)-C(28)	1.52(3)
S(4)-O(3)	1.469(14)	C(18)-C(29)	1.53(3)
S(4)-C(27)	1.86(2)	C(20)-C(21)	1.51(3)
O(5)-C(32)	1.59(4)	C(21)-C(22)	1.49(3)
O(6)-C(33)	1.73(4)	C(23)-C(24)	1.48(3)
N(1)-C(3)	1.49(2)	C(24)-C(25)	1.55(3)
N(1)-C(6)	1.49(2)	C(26)-C(27)	1.46(3)
N(1)-C(2)	1.51(3)	C(27)-C(30)	1.51(3)
N(2)-C(9)	1.48(2)	C(27)-C(31)	1.52(3)
N(2)-C(8)	1.50(3)		
N(2)-C(5)	1.53(2)		

^a Estimated standard deviations are given in parenthesis.

Table IVS. Complete list of bond angles (°)^a for [(Ni-2*)₂(CH₂)₃][NiBr₄].

N(1)-Ni(1)-N(2)	91.9(7)	C(20)-N(3)-Ni(2)	110.3(13)
N(1)-Ni(1)-S(1)	87.8(5)	C(23)-N(3)-Ni(2)	108.3(13)
N(2)-Ni(1)-S(1)	172.3(5)	C(26)-N(4)-C(25)	106(2)
N(1)-Ni(1)-S(2)	172.2(5)	C(26)-N(4)-C(22)	110(2)
N(2)-Ni(1)-S(2)	91.2(5)	C(25)-N(4)-C(22)	110(2)
S(1)-Ni(1)-S(2)	90.1(2)	C(26)-N(4)-Ni(2)	113.8(13)
N(4)-Ni(2)-N(3)	92.3(7)	C(25)-N(4)-Ni(2)	109.4(14)
N(4)-Ni(2)-S(4)	87.2(5)	C(22)-N(4)-Ni(2)	108.5(12)
N(3)-Ni(2)-S(4)	172.5(5)	C(2)-C(1)-C(12)	117(2)
N(4)-Ni(2)-S(3)	169.3(6)	C(2)-C(1)-C(11)	110(2)
N(3)-Ni(2)-S(3)	90.5(6)	C(12)-C(1)-C(11)	111(2)
S(4)-Ni(2)-S(3)	91.4(1)	C(2)-C(1)-S(1)	102.0(14)
Br(1)-Ni(3)-Br(3)	115.4(2)	C(12)-C(1)-S(1)	106.7(13)
Br(1)-Ni(3)-Br(2)	110.2(2)	C(11)-C(1)-S(1)	110(2)
Br(3)-Ni(3)-Br(2)	109.8(2)	C(1)-C(2)-N(1)	114(2)
Br(1)-Ni(3)-Br(4)	109.1(2)	N(1)-C(3)-C(4)	114(2)
Br(3)-Ni(3)-Br(4)	106.7(2)	C(5)-C(4)-C(3)	117(2)
Br(2)-Ni(3)-Br(4)	104.93(14)	C(4)-C(5)-N(2)	114(2)
O(2)-S(1)-O(1)	113.0(9)	N(1)-C(6)-C(7)	116(2)
O(2)-S(1)-C(1)	109.2(9)	C(8)-C(7)-C(6)	116(2)
O(1)-S(1)-C(1)	108.1(9)	N(2)-C(8)-C(7)	114(2)
O(2)-S(1)-Ni(1)	120.2(6)	N(2)-C(9)-C(10)	117(2)
O(1)-S(1)-Ni(1)	105.8(6)	C(14)-C(10)-C(9)	111(2)
C(1)-S(1)-Ni(1)	99.2(7)	C(14)-C(10)-C(13)	110(2)
C(15)-S(2)-C(10)	105.8(10)	C(9)-C(10)-C(13)	111(2)
C(15)-S(2)-Ni(1)	105.9(8)	C(14)-C(10)-S(2)	113.6(14)
C(10)-S(2)-Ni(1)	100.2(7)	C(9)-C(10)-S(2)	106.5(14)
C(17)-S(3)-C(18)	109.3(11)	C(13)-C(10)-S(2)	104.4(13)
C(17)-S(3)-Ni(2)	111.9(8)	C(16)-C(15)-S(2)	110(2)
C(18)-S(3)-Ni(2)	98.6(7)	C(17)-C(16)-C(15)	111(2)
O(4)-S(4)-O(3)	115.1(10)	C(16)-C(17)-S(3)	118(2)
O(4)-S(4)-C(27)	108.0(10)	C(19)-C(18)-C(28)	116(2)
C(3)-S(4)-C(27)	106.2(10)	C(19)-C(18)-C(29)	109(2)
O(4)-S(4)-Ni(2)	118.8(7)	C(28)-C(18)-C(29)	108(2)

O(3)-S(4)-Ni(2)	106.7(7)	C(19)-C(18)-S(3)	109(2)
C(27)-S(4)-Ni(2)	100.2(8)	C(28)-C(18)-S(3)	103.2(14)
C(3)-N(1)-C(6)	112(2)	C(29)-C(18)-S(3)	112(2)
C(3)-N(1)-C(2)	106(2)	C(18)-C(19)-N(3)	115(2)
C(6)-N(1)-C(2)	109(2)	N(3)-C(20)-C(21)	111(2)
C(3)-N(1)-Ni(1)	108.6(13)	C(22)-C(21)-C(20)	121(2)
C(6)-N(1)-Ni(1)	109.0(12)	C(21)-C(22)-N(4)	113(2)
C(2)-N(1)-Ni(1)	113.0(12)	C(24)-C(23)-N(3)	114(2)
C(9)-N(2)-C(8)	112(2)	C(23)-C(24)-C(25)	115(2)
C(9)-N(2)-C(5)	107.9(14)	N(4)-C(25)-C(24)	114(2)
C(8)-N(2)-C(5)	108(2)	C(27)-C(26)-N(4)	117(2)
C(9)-N(2)-Ni(1)	110.9(12)	C(26)-C(27)-C(30)	114(2)
C(8)-N(2)-Ni(1)	110.4(11)	C(26)-C(27)-C(31)	115(2)
C(5)-N(2)-Ni(1)	107.3(12)	C(30)-C(27)-C(31)	112(2)
C(19)-N(3)-C(20)	112(2)	C(26)-C(27)-S(4)	101(2)
C(19)-N(3)-C(23)	106(2)	C(30)-C(27)-S(4)	109(2)
C(20)-N(3)-C(23)	110(2)	C(31)-C(27)-S(4)	105(2)
C(19)-N(3)-Ni(2)	111.0(13)		

^a Estimated standard deviations are given in parenthesis.

Table VS. Anisotropic displacement paramters ($\text{Å}^2 \times 10^3$)^{a,b} for[(Ni-2*)₂(CH₂)₃][NiBr₄].

	U ₁₁	U ₂₂	U ₃₃	U ₂₃	U ₁₃	U ₁₂
Ni(1)	35(2)	38(2)	35(2)	1(2)	16(2)	2(2)
Ni(2)	39(2)	41(2)	37(2)	-1(2)	17(2)	-1(2)
Ni(3)	19(2)	28(2)	32(2)	1(2)	11(2)	5(1)
Br(1)	47(2)	64(2)	116(3)	-7(2)	-1(2)	3(2)
Br(2)	66(2)	71(2)	55(2)	12(2)	36(2)	142(0)
Br(3)	60(2)	67(2)	76(2)	-25(2)	33(2)	-7(2)
Br(4)	50(2)	47(1)	49(2)	4(1)	16(1)	-4(1)
S(1)	38(3)	43(3)	35(3)	-1(3)	14(3)	-2(3)
S(2)	36(3)	43(3)	37(3)	-2(3)	19(3)	-1(3)
S(3)	51(4)	40(3)	46(4)	-4(3)	22(3)	-1(3)
S(4)	42(4)	52(4)	48(4)	6(3)	15(3)	-4(3)
O(1)	43(9)	58(10)	38(9)	-4(8)	9(7)	-2(8)
O(2)	56(10)	38(8)	47(9)	5(7)	288(0)	10(8)
O(3)	44(9)	53(10)	56(10)	1(8)	17(8)	25(8)
O(4)	56(10)	63(10)	59(11)	3(9)	27(9)	-16(9)
O(7)	59(12)	69(13)	156(20)	53(14)	7(13)	5(10)
N(1)	29(10)	40(10)	34(10)	1(9)	1(9)	15(8)
N(2)	28(10)	38(10)	36(1)	-17(9)	8(9)	-7(8)
N(3)	44(11)	36(10)	55(13)	-3(9)	21(10)	3(9)
N(4)	60(13)	29(10)	39(11)	-12(9)	19(10)	-195(0)
C(1)	46(14)	40(13)	45(14)	9(11)	31(12)	8(11)
C(2)	39(13)	48(14)	49(14)	-1(12)	19(12)	2(11)
C(3)	43(14)	54(15)	46(15)	12(12)	14(12)	3(12)
C(4)	43(15)	49(15)	72(19)	10(14)	11(14)	4(12)
C(5)	39(13)	48(14)	45(14)	17(12)	11(11)	1(11)
C(6)	32(12)	46(13)	29(12)	-4(10)	14(10)	-2(10)
C(7)	34(13)	52(15)	61(16)	-8(13)	19(12)	-2(11)
C(8)	38(14)	44(14)	74(18)	1(13)	34(13)	-3(11)
C(9)	37(13)	38(13)	45(14)	-6(11)	17(11)	-3(11)
C(10)	29(12)	45(13)	33(12)	-12(10)	9(10)	1(10)

C(11)	48(15)	80(19)	71(18)	-12(15)	40(14)	-9(14)
C(12)	18(11)	50(13)	13(10)	9(9)	-10(9)	-10(10)
C(13)	64(16)	53(14)	19(11)	-6(11)	24(11)	-25(12)
C(14)	56(15)	46(13)	30(12)	9(11)	31(11)	-1(12)
C(15)	44(14)	49(14)	40(14)	-22(12)	9(11)	-2(11)
C(16)	46(14)	37(12)	40(13)	7(11)	25(12)	-10(11)
C(17)	80(19)	46(14)	51(15)	-8(12)	41(14)	-25(13)
C(18)	41(14)	59(15)	52(15)	10(13)	19(12)	4(12)
C(19)	65(15)	51(14)	12(10)	1(10)	22(11)	13(12)
C(20)	53(14)	42(13)	37(13)	16(11)	29(12)	-7(11)
C(21)	66(17)	38(13)	50(15)	17(12)	16(13)	7(12)
C(22)	64(16)	58(16)	27(13)	-16(11)	19(12)	-12(13)
C(23)	36(13)	54(15)	52(15)	-4(13)	20(12)	-9(12)
C(24)	50(15)	71(17)	33(14)	-6(13)	21(12)	0(13)
C(25)	50(15)	70(17)	54(16)	-8(14)	33(13)	5(13)
C(26)	43(14)	46(14)	61(16)	2(13)	18(13)	-4(12)
C(27)	53(16)	38(13)	53(16)	19(12)	12(13)	-2(12)
C(28)	43(14)	35(12)	44(14)	-9(11)	9(11)	4(11)
C(29)	98(21)	59(16)	39(15)	16(13)	27(15)	1(15)
C(30)	54(16)	74(18)	37(14)	11(14)	-22(13)	-25(14)
C(31)	31(13)	72(19)	35(19)	35(16)	6(13)	14(13)

^a The anisotropic displacement factor exponent takes the form: $-2\pi^2(h^2a^{*2}U_{11} + \dots + 2hka^*b^*U_{12})$.

^b Estimated standard deviations are give in parenthesis.

Table VIS. Atomic coordinates ($\times 10^4$) and equivalent isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for $[\text{Ni}-2*\text{Me}]\text{I}$.

	x	y	z	U(eq) ^{a,b}
I(1)	-4921(1)	-2756(1)	5206(5)	65(1)
Ni(1)	-2382(1)	-351(1)	0	29(1)
S(1)	-1546(1)	-993(2)	1449(4)	33(1)
S(2)	-3019(1)	-350(3)	2108(5)	43(1)
O(1)	-2977(5)	705(9)	2773(16)	81(5)
O(2)	-2930(5)	-1185(10)	3266(12)	71(4)
N(1)	-1775(4)	-238(6)	-1927(12)	33(3)
N(2)	-3188(4)	129(7)	-1250(11)	32(3)
C(1)	-924(5)	-1269(7)	-192(13)	33(3)
C(2)	-1030(5)	-452(9)	-1476(15)	39(4)
C(3)	-2012(5)	-983(9)	-3232(15)	42(4)
C(4)	-2732(6)	-1456(10)	-2896(17)	47(4)
C(5)	-3320(6)	-646(10)	-2654(15)	45(4)
C(6)	-1778(5)	882(9)	-2533(15)	42(4)
C(7)	-2466(5)	1249(9)	-3182(17)	45(4)
C(8)	-3035(6)	1212(9)	-1902(17)	42(4)
C(9)	-3829(5)	259(9)	-219(16)	45(4)
C(10)	-3867(5)	-490(9)	1158(15)	39(4)
C(11)	-1086(7)	-2408(9)	-658(18)	53(4)
C(12)	-181(4)	-1188(9)	440(20)	48(4)
C(13)	-3965(6)	-1646(8)	711(18)	55(5)
C(14)	-4425(6)	-154(10)	2415(19)	58(5)
C(15)	-1184(6)	105(11)	2571(19)	62(5)

^a Equivalent isotropic U defined as one third of the trace of the orthogonalized U_{ij} tensor.

^b Estimated standard deviations are given in parenthesis.

Table VIIS. Complete list of bond lengths (Å)^a for [Ni-2*Me]I.

Ni(1)-S(1)	2.170(3)	Ni(1)-S(2)	2.125(4)
Ni(1)-N(1)	1.977(9)	Ni(1)-N(2)	1.965(9)
S(1)-C(1)	1.84(1)	S(1)-C(15)	1.81(1)
S(2)-O(1)	1.45(1)	S(2)-O(2)	1.43(1)
S(2)-C(10)	1.83(1)	N(1)-C(2)	1.51(1)
N(1)-C(3)	1.50(1)	N(1)-C(6)	1.50(1)
N(2)-C(5)	1.54(1)	N(2)-C(8)	1.50(1)
N(2)-C(9)	1.51(1)	C(1)-C(2)	1.49(2)
C(1)-C(11)	1.53(1)	C(1)-C(12)	1.53(1)
C(3)-C(4)	1.54(2)	C(4)-C(5)	1.55(2)
C(6)-C(7)	1.51(1)	C(7)-C(8)	1.52(2)
C(9)-C(10)	1.48(2)	C(10)-C(13)	1.52(1)
C(10)-C(14)	1.55(2)		

^a Estimated standard deviations are given in parenthesis.

Table VIII. Bond angles (°)^a for [Ni-2*Me]I.

S(1)-Ni(1)-S(2)	89.3(1)	S(1)-Ni(1)-N(1)	91.2(3)
S(2)-Ni(1)-N(1)	175.6(3)	S(1)-Ni(1)-N(2)	175.1(3)
S(2)-Ni(1)-N(2)	87.9(3)	N(1)-Ni(1)-N(2)	91.9(4)
Ni(1)-S(2)-C(1)	99.2(3)	Ni(1)-S(1)-C(15)	106.3(4)
C(1)-S(1)-C(15)	105.3(5)	Ni(1)-S(2)-O(1)	106.0(5)
Ni(1)-S(2)-O(2)	118.0(4)	O(1)-S(2)-O(2)	115.2(7)
Ni(1)-S(2)-C(10)	100.1(4)	O(1)-S(2)-C(10)	107.6(5)
O(2)-S(2)-C(10)	108.6(5)	Ni(1)-N(1)-C(2)	111.1(7)
Ni(1)-N(1)-C(3)	110.0(6)	C(2)-N(1)-C(3)	110.7(8)
Ni(1)-N(1)-C(6)	109.3(6)	C(2)-N(1)-C(6)	104.7(7)
C(3)-N(1)-C(6)	110.9(9)	Ni(1)-N(2)-C(5)	109.1(6)
Ni(1)-N(2)-C(8)	108.2(7)	C(5)-N(2)-C(8)	110.5(9)
Ni(1)-N(2)-C(9)	113.3(7)	C(5)-N(2)-C(9)	110.6(8)
C(8)-N(2)-C(9)	105.1(8)	S(1)-C(1)-C(2)	107.1(7)
S(1)-C(1)-C(11)	103.2(7)	C(2)-C(1)-C(11)	117. (1)
S(1)-C(1)-C(12)	110.8(8)	C(2)-C(1)-C(12)	108.8(9)
C(11)-C(1)-C(12)	110.0(9)	N(1)-C(2)-C(1)	115.4(8)
N(1)-C(3)-C(4)	113. (1)	C(3)-C(4)-C(5)	116. (1)
N(2)-C(5)-C(4)	113.4(9)	N(1)-C(6)-C(7)	114.3(9)
C(6)-C(7)-C(8)	113. (1)	N(2)-C(8)-C(7)	114.6(9)
N(2)-C(9)-C(10)	113.5(9)	S(2)-C(10)-C(9)	102.3(7)
S(2)-C(10)-C(13)	108.0(7)	C(9)-C(10)-C(13)	116. (1)
S(2)-C(10)-C(14)	108.4(8)	C(9)-C(10)-C(14)	111.5(9)
C(13)-C(10)-C(14)	109.7(9)		

^a Estimated standard deviations are given in parenthesis.

Table IXS. Anisotropic displacement parameters ($\text{\AA}^2 \times 10^3$)^{a,b} for [Ni-2*Me]I.

	U_{11}	U_{22}	U_{33}	U_{23}	U_{13}	U_{12}
I(1)	80(1)	43(1)	72(1)	12(1)	29(1)	18(1)
Ni(1)	25(1)	24(1)	37(1)	0(1)	-1(1)	-18(1)
S(1)	25(1)	34(1)	39(1)	5(1)	2(1)	0(1)
S(2)	30(1)	55(2)	45(2)	-8(2)	1(1)	4(1)
O(1)	43(5)	88(8)	113(10)	-49(8)	10(6)	2(6)
O(2)	41(5)	118(10)	53(6)	42(6)	5(4)	5(6)
N(1)	32(5)	25(5)	41(6)	-11(4)	-1(4)	-3(4)
N(2)	32(5)	27(5)	38(5)	3(4)	-7(5)	3(4)
C(1)	29(5)	30(5)	39(7)	7(5)	7(5)	-1(4)
C(2)	27(6)	35(6)	56(8)	-1(6)	12(5)	-4(5)
C(3)	41(6)	44(6)	42(7)	-2(6)	-9(6)	-6(5)
C(4)	52(7)	37(6)	51(8)	-2(6)	-4(7)	-4(6)
C(5)	47(6)	45(7)	43(7)	7(6)	-19(6)	-7(5)
C(6)	47(6)	36(7)	44(8)	14(6)	4(6)	-6(6)
C(7)	47(6)	40(6)	50(8)	10(6)	-4(6)	-10(5)
C(8)	49(7)	25(6)	53(8)	12(6)	-8(6)	5(5)
C(9)	25(5)	46(6)	65(9)	6(6)	0(6)	2(5)
C(10)	27(5)	38(6)	50(7)	1(6)	-1(5)	-4(5)
C(11)	63(8)	33(6)	64(9)	-1(7)	19(7)	-6(6)
C(12)	27(5)	51(6)	65(8)	9(8)	3(6)	9(4)
C(13)	43(6)	37(6)	86(11)	13(7)	-6(7)	-6(5)
C(14)	39(6)	55(8)	79(11)	2(8)	11(7)	13(6)
C(15)	50(7)	75(10)	61(9)	-37(8)	-2(8)	-7(7)

^a The anisotropic displacement exponent takes the form: $-2\pi^2(h^2a^{*2}U_{11} + \dots + 2hka^*b^*U_{12})$

^b Estimated standard deviations are given in parenthesis.

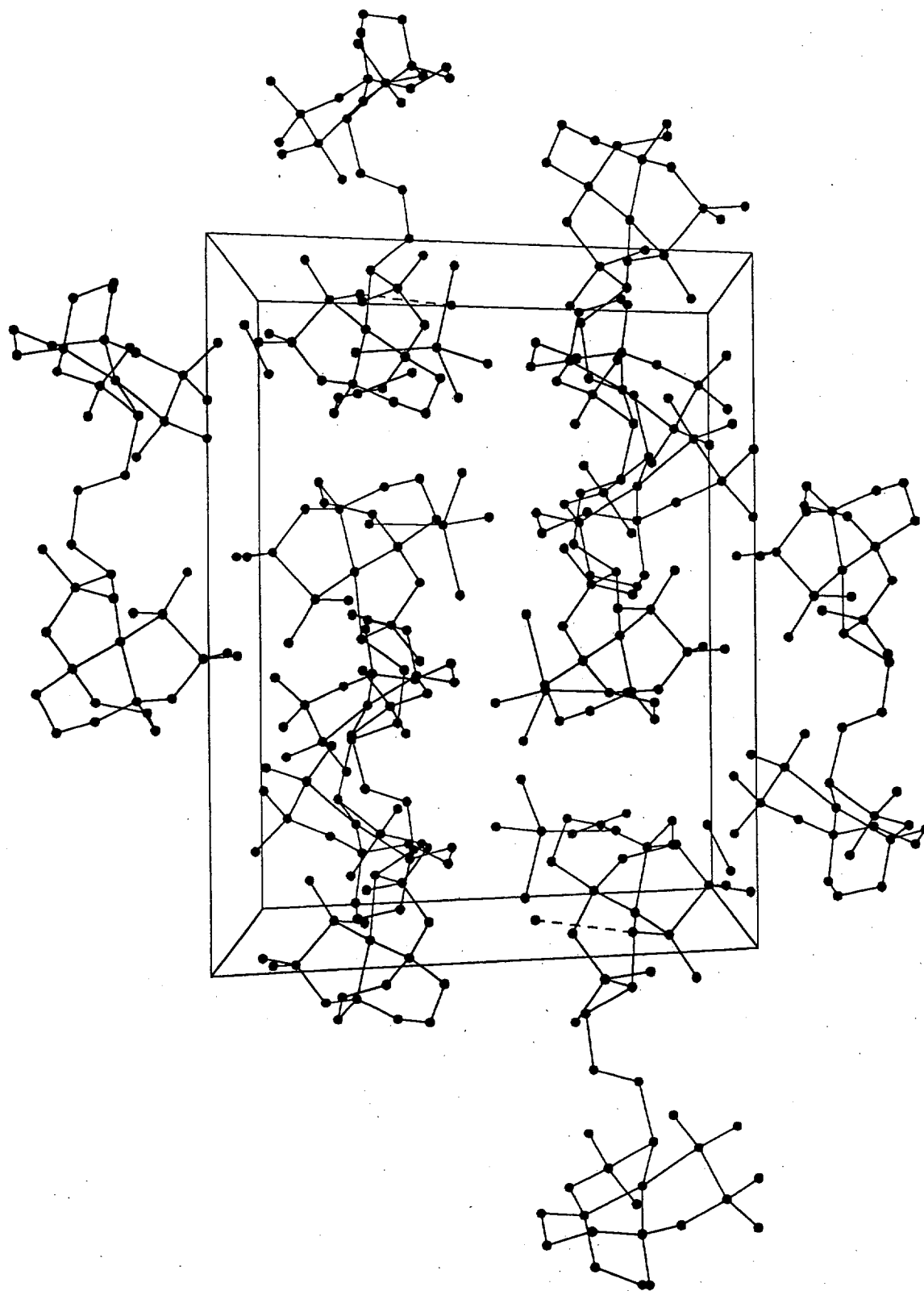


Figure IS. Packing diagram for $[(\text{Ni-2}^*)_2(\text{CH}_2)_3][\text{NiBr}_4]$

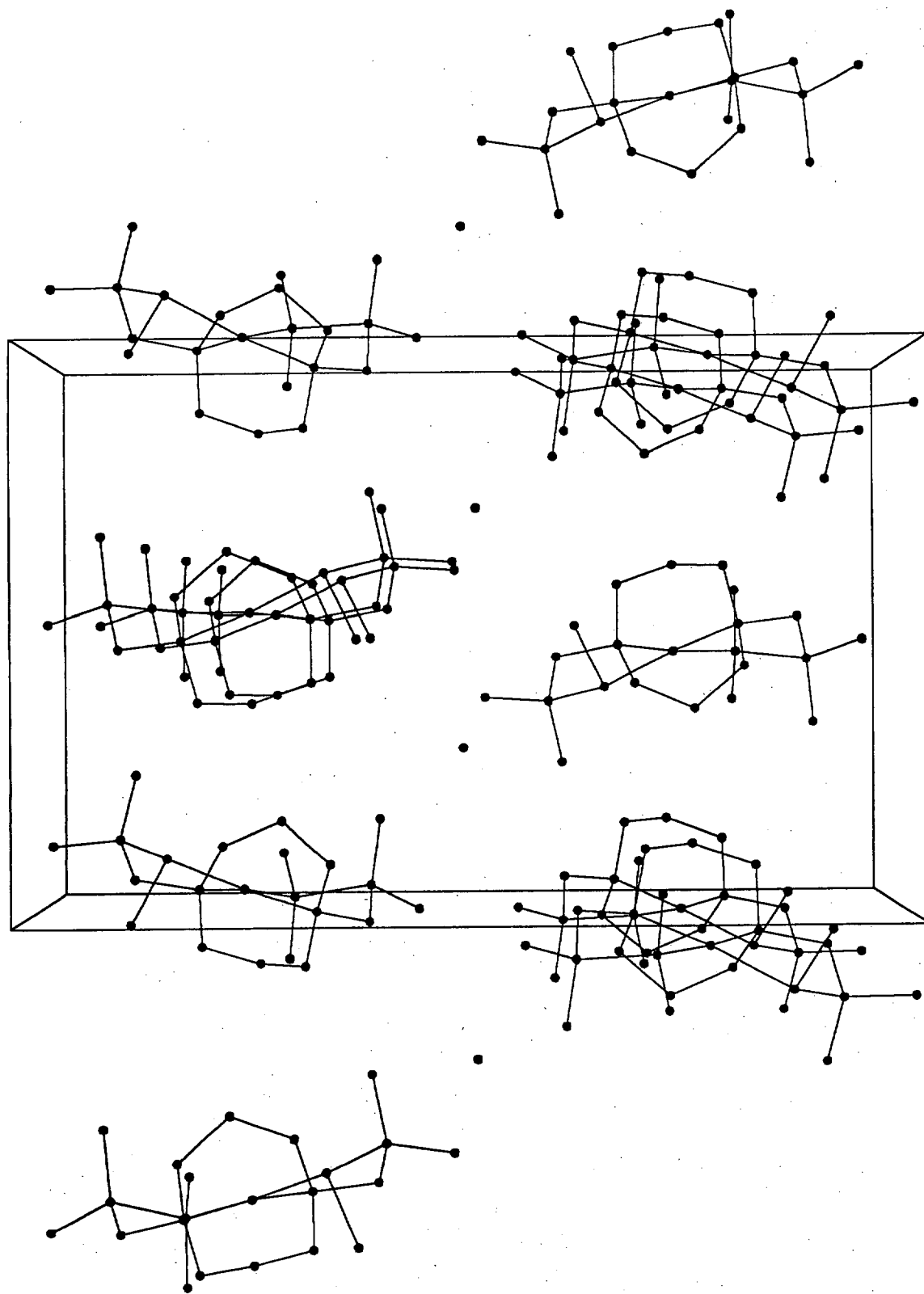


Figure IIS. Packing diagram for [Ni-2*Me]I