Supporting Information

Structurally-Variable, Rigid and Optically-Active D₂ and D₃ Macrocycles Possessing **Recognition Properties towards C₆₀**

Carmine Coluccini,^a Daniele Dondi,^b Marco Caricato,^a Angelo Taglietti,^b Massimo Boiocchi,^c and Dario Pasini*,a

a) Department of Organic Chemistry, University of Pavia, Viale Taramelli, 10 – 27100 – Pavia, Italy. Fax: +39 0382 987323; Tel: +39 0382 987835; E-mail: dario.pasini@unipv.it

b) Department of General Chemistry, University of Pavia, Viale Taramelli 12, Pavia, Italy. c) Centro Grandi Strumenti, University of Pavia, Via Bassi 21, Pavia, Italy.

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	3b	3c
Formula	C ₇₀ H ₆₀ O ₁₄	C ₇₀ H ₆₀ O ₁₄
M	1125.18	1125.18
Colour	colorless	colorless
Dimension [mm]	0.43 x 0.36 x 0.15	0.86 x 0.58 x 0.43
Crystal system	monoclinic	monoclinic
Space group	$P 2_1$ (no.4)	$P 2_1$ (no.4)
a [Å]	10.423(2)	11.414 (2)
<i>b</i> [Å]	10.230(3)	20.620(3)
<i>c</i> [Å]	27.358(6)	12.643(4)
β [°]	93.50(2)	91.47(2)
V[Å ³]	2911.7(12)	2974.7(11)
Z	2	2
$\rho_{\text{calcd}} [\text{g cm}^{-3}]$	1.283	1.256
$\mu \operatorname{Mo}_{\mathrm{K}\alpha} [\mathrm{mm}^{-1}]$	0.089	0.087
Scan type	ω scans	ωscans
θ range [°]	1.5 - 25.1	1.5 - 25.1
Measured reflections	5970	6900
Unique reflections	5506	5419
R _{int}	0.038	0.015
Strong data $[I_0 > 2\sigma(I_0)]$	2935	3884
Refined parameters	754	757
R1, $wR2$ (strong data)	0.0689, 0.1588	0.0482, 0.1202
R1, wR2 (all data)	0.1470, 0.1980	0.0760, 0.1371
GOF	1.045	1.031
Max / min residuals $[eÅ^{-3}]$	0.20 / -0.24	0.22 / -0.13

 Table S1. Crystal data for investigated crystals.

Table S2. Selected ¹H NMR chemical shifts for precursor **1** and macrocycles **3** and **4** in CDCl₃ at room temperature.^a



Compound	BINOL-A	BINOL-D	BINOL-E	CH ₂	OMe
1 ^b	7.15(d)	7.89 (d)	8.03 (s)	4.98 (dd)	3.30 (s)
3a ^b	7.02 (d)	7.95 (d)	8.03 (s)	5.63 (dd)	2.88 (s)
3b	7.08 (d)	7.83 (d)	8.04 (s)	5.62 (dd)	3.24 (s)
3c ^b	7.10 (d)	7.95 (d)	8.19 (s)	5.63 (dd)	3.48 (s)
3d	N.D. ^c	7.94 (d)	8.00 (s)	5.64 (dd)	3.14 (s)
4a ^b	7.06 (d)	N.D. ^c	8.08 (d)	5.49(cdd)	3.07 (s)
4b	7.19 (d)	7.79 (d)	8.08 (s)	5.67(cdd)	3.30 (s)
4c ^b	7.10 (d)	7.93 (d)	8.13 (d)	5.68 (cdd)	3.34 (s)

^a Spectra taken either at 200 MHz or 300 MHz with 5-10 mM sample concentration in CDCl₃. Peak multiplicity as follows: s singlet, bs broad singlet, d doublet, dd double doublet (AB system), cdd collapsed double doublet. ^b Data taken from reference 11. ^c Not unequivocally assigned.

Figure S1. ¹H NMR spectra (CDCl₃, 300 MHz, room temperature) of macrocycles a) **3c**; b) **3a**; c) **3b**; d) **3d**.



Figure S2. ¹H NMR spectra (toluene- d_8 , 300 MHz, room temperature) of **3c** (10⁻³ M) in the presence of C₆₀ (a: 0; b: 3 x 10⁻⁴ M; c: 5.3 x 10⁻⁴ M; d: 1.2 x 10⁻³ M).



Figure S3. ¹H NMR spectra (toluene- d_8 , 300 MHz, room temperature) of **4c** (10⁻³ M) in the presence of C₆₀ (a: 0; b: 1.7 x 10⁻³ M; c: 3.2 x 10⁻³ M; d: 6.9 x 10⁻³ M).



Figure S4. Best fitting and related parameters for the titration reported in Figure 5 (including titration endpoint, toluene, C_{60} constant at 5 10⁻⁵ M).



Nonlinear Regression

Data Source: Data 1 in titolazione4creplicaSIinset.JNB Equation: User-Defined; Untitled

 $f = (E-15)*((k*(0,00005+x)+1)-((k*(0,00005+x)+1)^2-4*(k^2)*0,00005*x)^{(0.5)})/(2*k)+0,00005*15$

R	Rsqr	Adj Rsqr	Standard Error of Estimate
0,9901	0,9804	0,9792	0,0013
		S	td. Error
Calcd a	: 1491,928	148,4209	
Calcd <i>I</i>	K. 1079 166	6 164 4081	

Figure S5. Best fitting and related parameters for the titration reported in Figure 5 (without titration endpoint, toluene, C_{60} constant at 5 x 10⁻⁵ M).



Nonlinear Regression

Data Source: Data 1 in titolazione4creplicaSIinset-finalpoint.JNB Equation: User-Defined; Untitled

 $f = (E-15)*((k*(0,00005+x)+1)-((k*(0,00005+x)+1)^2-4*(k^2)*0,00005*x)^{(0.5)})/(2*k)+0,00005*15$

R	Rsqr	Adj Rsqr	Standard Error of Estimate
0,9835	0,9673	0,9652	0,0013
			Std. Error
Calcd e	1466,58	63	369,7897

Calcd *K*_a 1105,2024 395,3416

Figure S6. Replicate titration of macrocycle **4c** with C_{60} (toluene, C_{60} constant at 10^{-4} M, inset absorbance taken at 437 nm).



Nonlinear Regression

Data Source: Data 1 in titolazione4crep.JNB

Equation: User-Defined; Untitled

 $f = ((E-15)*((k*(0,0001+x)+1)-((k*(0,0001+x)+1)^2-4*(k^2)*0,0001*x)^{(0.5)})/(2*k))+0,0001*15$

R = 0.99663547 Rsqr = 0.99328226 dj Rsqr = 0.99160283

Coefficient		Std. Error
Calcd ɛ	1103,7146	76,0135
Calcd K _a	1263,7541	354,7808

Figure S7. End point titration curve (broken line, $C_{60} \ 10^{-4}$ M, macrocycle **4b** 1.02 x 10^{-3} M) vs C_{60} only (continuous line, $C_{60} \ 10^{-4}$ M) for the experiment reported in Figure 6.



Figure S8. Best Fitting including end point titration for experiment reported in Figure 6 (fullerene 10⁻⁴

M, macrocycle **4b** $0-1.02 \times 10^{-3}$ M, 0-10 equivalents).

(see experimental section for parameter explanation)



Nonlinear Regression

Data Source: Data 1 in titolazione4bhillfitting-2.JNB Equation: Sigmoidal; Hill, 4 Parameter $f=y0+a*x^b/(c^b+x^b)$

R		Rsqr	Adj Rsqr	Standard Error of Estimate
0,99	976	0,9951	0,9937	0,0019
		Coefficier	nt	Std. Error
a b c y0	0,13 2,90 0,00 0,03	323 090 008 351	0,02 0,62 0,00 0,00	320 294 002 014

Figure S9. Fitting for the experiment reported in Figure 6 without end point (fullerene 10^{-4} M, macrocycle **4b** $0-4.6 \times 10^{-3}$ M, 0-4.6 equivalents).

(see experimental section for parameter explanation)



Nonlinear Regression

Data Source: Data 1 in titolazione4bhillfitting-some points-endpoint SI.JNB **Equation: Sigmoidal; Hill, 4 Parameter** $f=y0+a*x^b/(c^b+x^b)$

R	Rsqr	Adj Rsqr	Standard Error of Estimate	
0,9973	0,9947	0,9924	0,0009	
	Coeffici	ent	Std. Error	
a 0,1	493	0,0)949	

b	1,9360	0,1498
c	0,0010	0,0002
y0	0,0319	0,0025

Figure S10. Control titration of macrocycle **3c** with C_{60} (Toluene, C_{60} constant at 2 x 10⁻⁴ M).



Figure S11. Control titration of terephthalic acid dimethyl ester with C_{60} (Toluene, C_{60} constant at 5 x 10^{-5} M).



Figure S12. Control titration of 2,2'-dimethoxy-1,1'-binahpthyl with C_{60} (Toluene, C_{60} constant at 5 x 10^{-5} M).



Figure S13. Optimized conformers of 4c. a) collapsed structure; b) open structure.



Macrocycle 3b. ¹H NMR (CDCl₃, 300 MHz)













Macrocycle **4b**. ¹H NMR (CDCl₃, 200 MHz)



ESI mass spectrum



Details on calculations.

Geometry optimizations were carried out using the semiempirical PM3 method as implemented by the Gaussian 2003 package.^{S1}

Atomic Coordinates and Energies for the reported molecules

Below are listed coordinates in cartesian format (units are in Å) and energies (in parentheses, units are in Hartrees) for the reported molecules. The calculated energy for C_{60} , used in this paper, was 1.29212107 Ha.

3b	(E	= -0.33873	499 Ha)	
С		8.397506	1.016337	2.816303
С		7.331641	1.178721	1.973748
С		7.068042	0.228235	0.948660
С		7.915947	-0.891987	0.826283
С		9.016654	-1.038045	1.714087
С		9.251197	-0.103186	2.685059
Н		8.601001	1.752121	3.601344
Н		6.666606	2.046426	2.067921
С		5.975221	0.377639	0.042130
С		7.646966	-1.878003	-0.159149
Н		9.668486	-1.912844	1.607927
Н		10.098019	-0.211504	3.370538
С		6.605065	-1.729380	-1.039159
С		5.794288	-0.554369	-0.967016
Н		8.277937	-2.776357	-0.190433
С		4.995155	1.466328	0.226779
С		5.186890	2.739332	-0.389213
С		3.846249	1.232378	0.963534
С		6.350707	3.040786	-1.148585
С		4.190745	3.727598	-0.247233
С		2.812123	2.215465	1.062488
С		6.510064	4.274836	-1.717999
Н		7.115380	2.262976	-1.266624
С		4.381301	5.002234	-0.847203
С		2.999514	3.439059	0.470141
С		5.516271	5.268475	-1.563410
Н		7.408371	4.505954	-2.299759
Н		3.602316	5.763912	-0.727170
Н		2.215287	4.217631	0.516095
Н		5.666458	6.249368	-2.025921
0		3.632176	-0.031872	1.513168
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Н		6.288367	-2.396144	-3.069678
Н		7.071478	-3.622740	-1.998358
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Н		1.258429	0.802370	1.612855
Н		1.655354	2.022719	2.875225
С		-0.204245	2.594634	0.303322
0		0.465194	2.735002	1.495070
С		-0.998011	3.807562	-0.035046
С		-2.339916	3.673502	-0.381981
С		-0.379689	5.059087	-0.040336
С		-3.069091	4.810118	-0.738534

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н	0.690575	5.132284	0.222382
С	-2.460003	6.065951	-0.735782
Н	-0.641037	7.171187	-0.387079
ч	-3 035984	6 951311	-1 021135
	-3.033904	0.004044	-1.021133
C	4.033283	-0.130734	2.862640
Η	5.099077	0.098376	2.991857
Н	3,435065	0.516952	3.514452
ц	3 837117	_1 1813/7	3 091218
п ~	3.837117	-1.10134/	5.091210
С	5.118835	-0.009204	-3.141419
Н	5.680681	0.932415	-3.141444
н	5 714917	-0 798426	-3 626038
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н	4.104303	0.112008	-3.05/842
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0	-5.035038	5.271463	-2.082485
\cap	-5 183500	3 734144	-0 474474
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0	-0.120144	1.5/255/	-0.3415/1
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С	-7.747303	1.749578	0.408893
C C	-9 051360	0 529699	1 066225
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C	-6.622654	1.871376	-0.366387
С	-7.169440	-0.566228	0.958444
С	-9.238585	0.400832	1.837817
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С	-6.352166	3.171395	-1.073098
С	-7.503345	-1.780025	1.621618
Ċ	-5 977591	-0 /31162	0 181/3/
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С	-9.531531	-0.777890	2.467393
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С	-8.654677	-1.881136	2.354239
н	-6 823222	-2 635909	1 525236
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C	-5.00/558	-1.544391	0.124831
Н	-10.445106	-0.880928	3.061994
С	-4.745761	0.806666	-2.617366
ч	-8 909983	-2 818504	2 859532
	-0.909903	-2.010304	2.000002
C	-5.088577	-2.498259	-0.936226
С	-3.999641	-1.659111	1.068062
Н	-5.188843	-0.151490	-2.915992
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Н	-3.727599	0.893692	-3.003833
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с н	-5.326485	2.787397 4 670760	-1.091318
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Н	-9.038559	3.920432	3.254956
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Η	-9.101343	1.459828	3.559505
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C	-5 332656	-2 754495	1 242087
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H	-5.992786	-0.154345	-2.952820
Н	-4.988214	1.195032	-3.590132
Н	-4.261497	-0.432989	-3.352816
С	-9.000820	-1.586581	-2.043604
Η	-8.050672	0.258027	-1.493181
С	-8.155766	-3.606158	-1.032913
С	-6.270668	-3.479999	0.552020
C	-4.382068	-3.472903	2.160670
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H TT	-9.717775	-1.111322	-2.721281
н	-8.173869	-4.693/90	-0.896807

H	-6.311872	-4.573516	0.655554
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п	-4.801610	-4.441204	2.496386
0	-3.086511	-3.626743	1.596695
Н	-5.487279	0.191632	3,204910
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п	-4.494403	-1.230450	5.657099
H	-3.698731	0.339601	3.322873
Н	-9.783231	-3.573330	-2.428452
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	2.041041	4.5045277	0.710520
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C	-0 869194	-5 782904	-0 272851
a	0.000101	2.266007	0.272001
C	-0.849184	-3.366997	-0.130385
С	0.382083	-5.759519	-0.876618
Н	-1.376592	-6.740080	-0.100164
C	0 106006	2 2/2510	0 729404
	0.400000	-3.343519	-0.728404
Н	-1.331275	-2.423347	0.154884
С	1.019092	-4.538985	-1.102293
н	0 861547	-6 696630	-1 182253
 	0.0010504	0.090090	1.102233
н	0.912594	-2.385904	-0.901210
С	2.347290	-4.526830	-1.776539
0	2,628958	-5.015457	-2.853611
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Н	-1.092870	6.765997	-0.871200
С	-0.584004	5.820895	-0.645269
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a	1 000000	4 (1505)	0.201000
C	-1.286368	4.6152/3	-0./11018
С	1.400568	4.621219	0.018509
н	1,311360	6.769223	-0.240020
 C	0 (41700	2 412004	0 417074
C	-0.641/89	3.413004	-0.41/6/4
С	-2.730922	4.650570	-1.072188
С	2.837843	4.661052	0.407616
C	0 701357	3 415900	-0 053636
	1 100411	0.460051	0.055050
Н	-1.188411	2.463051	-0.469786
0	-3.523878	5.531758	-0.798361
0	-3.135543	3,575002	-1.811293
	2 166000	2 722550	1 254500
0	3.100000	5.752550	1.354500
0	3.681540	5.435069	-0.002955
Н	1.203697	2.468149	0.177276
C	4 501637	3 647966	1 834317
c c	E 402200	2 020004	1.051911
C	5.402300	2.020004	0.950894
Н	4.338604	3.150880	2.813976
H	4.931160	4.651447	2.021636
C	5 373644	1 399402	0 968331
a	6.000607		0.100001
C	6.293637	3.4/11/8	0.129031
С	6.243199	0.657182	0.185894
0	4.392858	0.735496	1,702938
C C	7 100966	2 720007	-0 600006
	7.190800	2.750907	-0.090990
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С	8.108312	3.416643	-1.539793
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	J. TJJUL/	-1.040000	1 400555
C	8.092614	0.621669	-1.489575
H	5.659108	0.119532	3.247737
н	4.688431	1.598398	3.571555
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11 G	101010.0	-0.00194/	3.45101/
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СССОСННСНССССНСНННННННН	7.869878 7.023174 5.435190 4.566643 8.969000 8.087560 9.684359 8.634687 7.889677 7.824823 6.209619 4.614242 5.032044 9.674640 8.611540 9.274284 7.799422 6.211249 4.564885 5.041935 6.021775 5.056319 4.279391 9.230472	-0.819220 -2.919715 -2.974663 -0.864608 1.295129 -0.475312 3.225659 -1.508173 0.277691 -3.613520 -3.634502 -3.776027 -0.760126 0.745977 -2.921560 -0.971964 -4.709233 -4.731618 -3.276845 -4.786237 -0.290154 -1.745928 -0.123476 -3.451317	2.086788 1.189454 -0.647569 -1.517420 -2.296302 -1.462306 -2.980979 2.988258 2.059087 2.136754 0.272696 -1.618286 -2.846477 -2.928503 3.016253 3.016253 3.697171 2.148892 0.313487 -2.611690 -1.770549 -2.904733 -3.335460 -3.317111 3.747724
4b,	conformation	n.1 (E = -0 .	.51647347 Ha)
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н	7 840796	5 944152	-0 546406
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C C	2 789674	9 539015	0.017971
C C	2.700074	7 453030	0.01/5/1
C C	2.003391	10 22//79	-0 507921
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Н 	0.308471	11.910516	0.101680
Н	-0.474800	9.814556	1.043460
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п	3.020139	-0.446497	-3.000007
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H	10.475571	-8.583462	-1.005373
С	5.702557	-6.664339	0.415586
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С	-4.106877	-4.812843	0.919523
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С	-8.434866	2.042590	-0.964336
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Ċ	-9 664390	-3 762154	-0 189006
	-9.004390	-3.702134	-0.10000
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С	-4.039624	4.934881	-0.190665
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	-2.653819	5.000105	-0.098585
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С	-6.522606	-1.169770	2.690334
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Н	-6.290699	-2.108682	3.215849
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Η	3.120127	8.532289	-2.408699
Н	4.165455	7.645178	-3.562344
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с С	4 024700		2.000070
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4b,	conformation	n.2 (E = -0	.52240409 Ha)
4b, C	conformation -10.039369	n.2 (E = -0 -3.551714	.52240409 Ha) 3.273138
4b, C C	conformation -10.039369 -9.196534	n.2 (E = -0 -3.551714 -3.998154	.52240409 Ha) 3.273138 2.291956
4b, C C C	<pre>conformation -10.039369 -9.196534 -8.898658</pre>	n.2 (E = -0 -3.551714 -3.998154 -3.181405	.52240409 Ha) 3.273138 2.291956 1.165943
4b, C C C C	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230</pre>	n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243
4b, C C C C C	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409</pre>	n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117 -1.462497	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712
4b, C C C C C	conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996	n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909
4b, C C C C C C H	conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397	n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131
4b, C C C C C H	conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397	n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.261238
4b, C C C C C C H H	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683</pre>	n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238
4b, C C C C C C C H H C	conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788	<pre>n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 </pre>	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491
4b, C C C C C C C H H C C	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.020000000000000000000000000000000000</pre>	<pre>n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450</pre>	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059
4b, C C C C C C C C H H C C H	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232</pre>	<pre>n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456</pre>	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089
4b, CCCCCCC HHCC HHCCH	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559</pre>	<pre>n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011</pre>	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368
4b , C C C C C C C H H C C H H C	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071</pre>	<pre>n.2 (E = -0 -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677</pre>	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169
4b , C C C C C C C H H C C H H C C	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600
4b , C C C C C C C H H C C H H C C H	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519
4b , ССССССННССННССНС	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941
4b , ССССССННССННССНСС	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884
4b , ССССССННССННССНССС	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177
4b , ССССССННССННССНСССССССССССССССССССССС	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255 -9.346605</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005 -5.868143	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177 -1.132066
4b , ССССССННССННССНСССССС	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255 -9.346605 -7.570941</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005 -5.868143 -7.351396	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177 -1.132066 -0.373417
4ь, ссссссннссннсснссссс	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255 -9.346605 -7.570941 -5.709211</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005 -5.868143 -7.351396 -6.526622	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177 -1.132066 -0.373417 0.954222
4 ССССССННССННССНСССССС	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255 -9.346605 -7.570941 -5.709211 0772220</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005 -5.868143 -7.351396 -6.536623 -6.022627	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177 -1.132066 -0.373417 0.954223 1.722620
4Ъ, ССССССННССННССНССССССС	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255 -9.346605 -7.570941 -5.709211 -9.977220 -9.77220 </pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005 -5.868143 -7.351396 -6.536623 -6.923637	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177 -1.132066 -0.373417 0.954223 -1.732628 1.160000
4Ъ, ССССССННССННССНССССССНА	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255 -9.346605 -7.570941 -5.709211 -9.977220 -9.785109</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005 -5.868143 -7.351396 -6.536623 -6.923637 -4.862624	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177 -1.132066 -0.373417 0.954223 -1.732628 -1.168029
4Ъ, ССССССННССННССНССССССНС	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255 -9.346605 -7.570941 -5.709211 -9.977220 -9.785109 -8.241756</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005 -5.868143 -7.351396 -6.536623 -6.536623 -6.923637 -4.862624 -8.431901	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177 -1.132066 -0.373417 0.954223 -1.732628 -1.008812
4Ъ, ССССССННССННССНССССССНСС	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255 -9.346605 -7.570941 -5.709211 -9.977220 -9.785109 -8.241756 -6.358752</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005 -5.868143 -7.351396 -6.536623 -6.923637 -4.862624 -8.431901 -7.570911	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177 -1.132066 -0.373417 0.954223 -1.732628 -1.168029 -1.008812 0.330490
4Ъ, ССССССННССННССНССССССНССС	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255 -9.346605 -7.570941 -5.709211 -9.977220 -9.785109 -8.241756 -6.358752 -9.417797</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005 -5.868143 -7.351396 -6.536623 -6.923637 -4.862624 -8.431901 -7.570911 -8.220638	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177 -1.132066 -0.373417 0.954223 -1.732628 -1.168029 -1.008812 0.330490 -1.674794
4Ъ, ССССССННССННССНССССССНСССН	<pre>conformation -10.039369 -9.196534 -8.898658 -9.489230 -10.362409 -10.629996 -10.263397 -8.731683 -8.025788 -9.206975 -10.811232 -11.299559 -8.359071 -7.763756 -9.676191 -7.435120 -8.118204 -6.254255 -9.346605 -7.570941 -5.709211 -9.977220 -9.785109 -8.241756 -6.358752 -9.417797 -10.924097</pre>	n.2 (E = -0) -3.551714 -3.998154 -3.181405 -1.904117 -1.462497 -2.270185 -4.182089 -4.989526 -3.618211 -1.067450 -0.465456 -1.934011 -1.477677 -2.774741 -0.074295 -4.970115 -6.053984 -5.216005 -5.868143 -7.351396 -6.536623 -6.923637 -4.862624 -8.431901 -7.570911 -8.220638 -6.775220	.52240409 Ha) 3.273138 2.291956 1.165943 1.081243 2.112712 3.183909 4.140131 2.361238 0.121491 -0.029059 2.034089 3.982368 -1.027169 -0.946600 -0.074519 0.198941 -0.437884 0.880177 -1.132066 -0.373417 0.954223 -1.732628 -1.168029 -1.008812 0.330490 -1.674794 -2.262335

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C60@2x4 C C C C C C	4b (E = 0 2.583297 3.871542 4.595442 3.963691 2.619954	.2426138 Ha) 9.916293 9.483596 8.934778 8.861457 9.303618	0.271771 0.110910 1.206240 2.463909 2.602837

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c	1 170250	2.001 ± 10	
	1.1/0359	-2.091540	5./93665
C	0.948971	-0.763518	4.578805
С	6.503694	-2.241369	5.178714
С	6.309270	-0.431141	3.523074
С	4.022584	0.709778	2.281534
Ċ	1 620200	0 100/06	2 522/05
C	T.020200	0.190400	2.002400

C	5 145830	-3 907687	6 148561
C	2 822932	-4 709186	6 013103
C	0 536111	-3 568150	4 771458
C	0.330111	-1 476039	2 502252
c	0.272505	-1.470039	5.302233
C	6.291977	-3.6/9958	5.277502
Ċ	6.903552	-1.681746	3.977743
C	6.151719	-0.507114	2.076155
С	2.718786	0.406176	1.705525
С	5.038895	0.050525	1.470121
С	0.693630	-0.886490	2.237600
С	4.256299	-4.930193	5.868422
С	2.146455	-5.421833	4.936654
С	1.032679	-4.866021	4.331859
C	0.071630	-2.842049	3.596090
C	6 490696	-4 486164	4 170303
c	0.40000	2 520740	2 011050
d	7.113139	-2.530749	2.011050
C	6.648424	-1.804/96	1.636651
C	2.928153	-0.442676	0.539543
С	4.361541	-0.663466	0.394554
С	0.890518	-1.692009	1.128971
С	4.465694	-5.779377	4.702526
С	3.161765	-6.083202	4.126630
С	0.874978	-4.942046	2.884868
С	0.281202	-3.691120	2,430258
Ċ	5 553961	-5 563118	3 875356
C	6 911909	-3 896779	2 905598
c		-3.000775	2.505550
d	0.005990	-2.401317	0.014500
Ĉ	2.038380	-1.464925	0.259183
C	4.833010	-1.895839	-0.022549
С	0.681005	-3.131468	1.229372
С	3.012063	-6.155313	2.752743
С	1.839006	-5.569872	2.115758
С	5.396335	-5.639362	2.428419
С	6.235610	-4.609405	1.829006
С	5.794284	-3.920022	0.713107
С	2.535132	-2.762871	-0.180125
C	3.896159	-2.972845	-0.317286
Ċ	1 696115	-3 792738	0 419313
C	1 150212	-5 927679	1 0015/2
c	4.130213	-3.927079	1.001343
C	2.260254	-4.980433	0.851063
C	4.490252	-4.223/83	0.13/065
C	3.693471	-5.201732	0.706063
С	6.600427	3.111532	0.450581
Η	7.619422	3.138133	0.045931
Η	6.596302	3.499708	1.480876
Η	6.204746	2.090449	0.435159
С	4.402797	5.883615	-4.274233
Η	5.055845	6.683187	-3.900160
Н	4.517898	5.796160	-5.361071
н	3 360697	6 093497	-4 021465
Ċ	-6 847889	3 3/5/73	-1 526807
11		4 202401	1 511/51
п	-7.382267	4.303461	-1.511451
н 	-5./9038/	3.508947	-1./83645
н	-7.311193	2.661/11	-2.241850
С	-9.490381	1.875060	3.775340
Η	-9.175561	2.818887	4.237734
Η	-10.562075	1.707157	3.962508
Η	-8.903445	1.042103	4.168972
С	-1.308626	-2.782711	-4.946258
Η	-1.724032	-2.383072	-4.011687
Н	-0.213125	-2.662294	-4.940482

Н	-1.734992	-2.261356	-5.806779
С	-5.227272	-6.878137	-3.740060
Η	-4.732576	-7.121024	-2.791787
Η	-6.307795	-6.745811	-3.577247
Н	-5.047836	-7.664528	-4.476633

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