Supporting Information

for

A new method for the synthesis of diamantane by hydroisomerization of binor-S on treatment with sulfuric acid

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Experimental procedures, NMR, and mass spectral data

**Figure S1**: Mass spectrum of tetrahydrobinor-S (3c).

**Figure S2**: Mass spectrum of hexacyclo[8.4.0.0^2,7,0^3,14,0^4,8,0^9,13]tetradec-5-ene (4a).

**Figure S3**: Mass spectrum of hexacyclo[6.6.0.0^2,6,0^5,14,0^7,12,0^9,13]tetradec-3-ene (4b)
Figure S4: $^1$H NMR spectrum of tetrahydrobinor-S (3c) in CDCl$_3$. 

$3c$
Figure S5: $^{13}$C NMR spectrum of tetrahydrobinor-S (3c) in CDCl$_3$. 
Figure S6: $^1$H NMR spectrum of mixture hexacyclo[8.4.0.0$^2$.7,0$^3$.14.0$^4$.8,0$^9$.13]tetradec-5-ene (4a) and hexacyclo[6.6.0.0$^2$.6,0$^5$.14.0$^7$.12,0$^9$.13]tetradec-3-ene (4b) in CDCl$_3$. 
**Figure S7:** $^{13}$C NMR spectrum of mixture hexacyclo[8,4.0.0.2,7,0.3,14,0.4,8,0.9,13]tetradec-5-ene (4a) and hexacyclo[6,6.0.0.2,6,0.5,14,0.7,12,0.9,13]tetradec-3-ene (4b) in CDCl$_3$. 