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Australian Journal of Chemistry 2013, 66(8), 882-890

## Supplementary Material

## Studies on the Enantioselective Synthesis of Carbazolones as Intermediates in Aspidosperma and Kopsia Alkaloid synthesis

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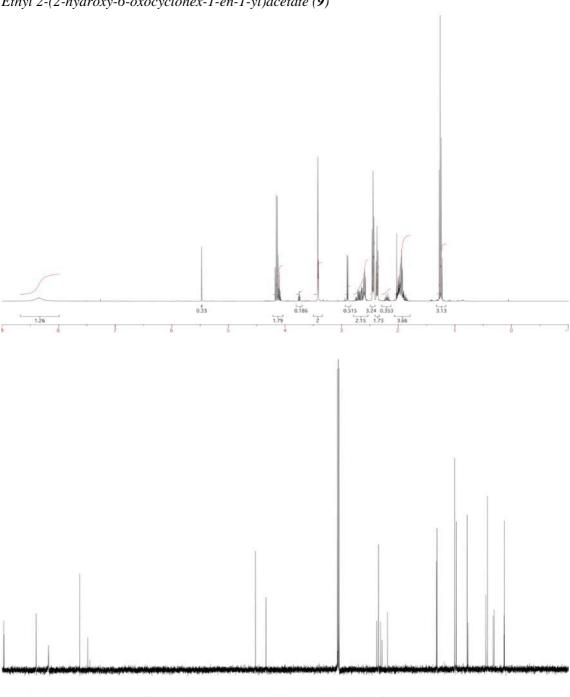
School of Chemistry, Monash University, Clayton 3800, Victoria, AUSTRALIA

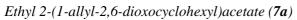
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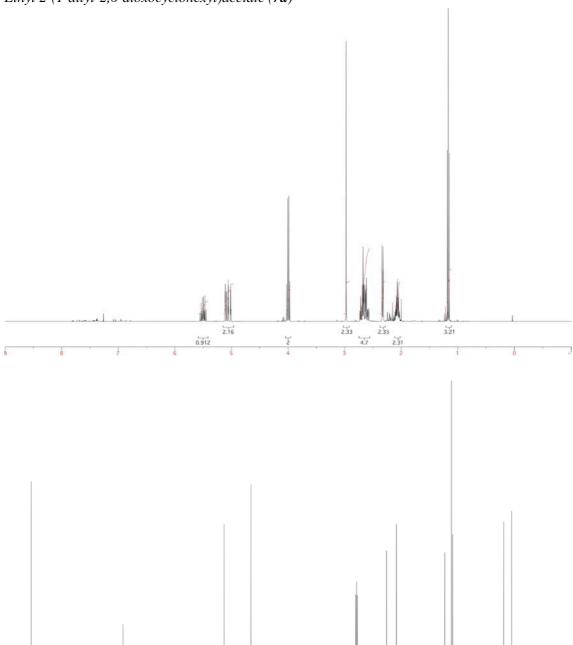
I <sup>1</sup>H and <sup>13</sup>C NMR spectra

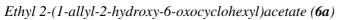
SI-2

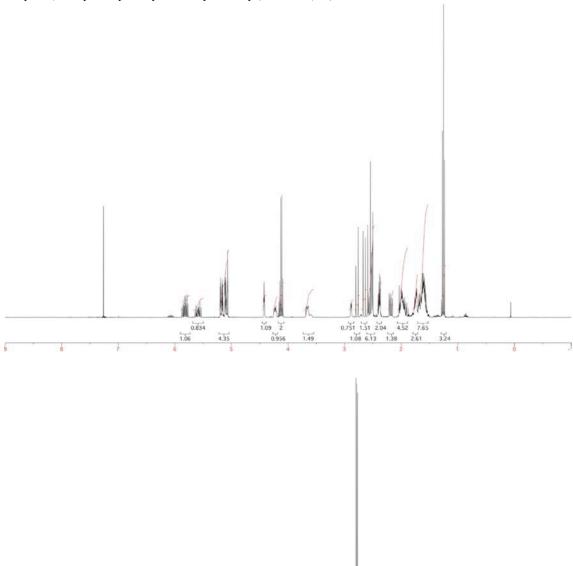
Ethyl 2-(2-hydroxy-6-oxocyclohex-1-en-1-yl)acetate (9)

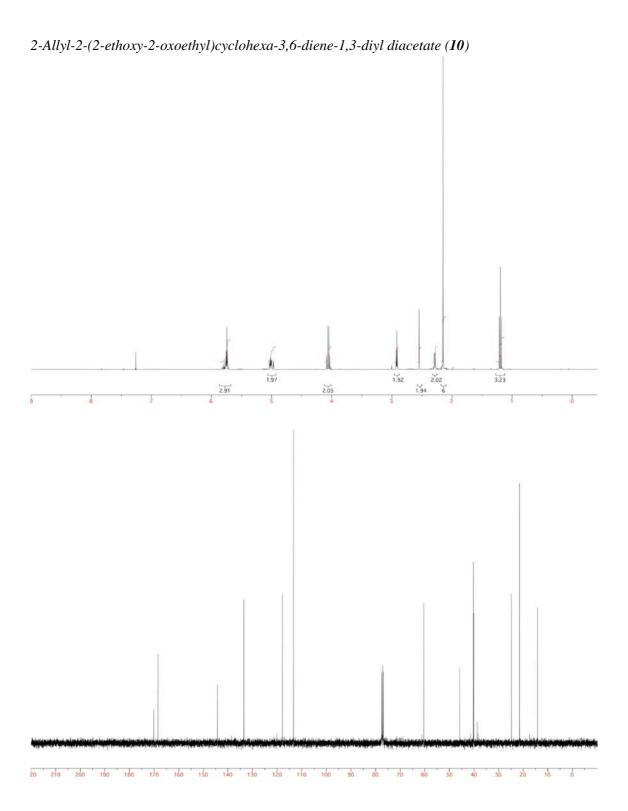


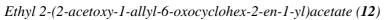


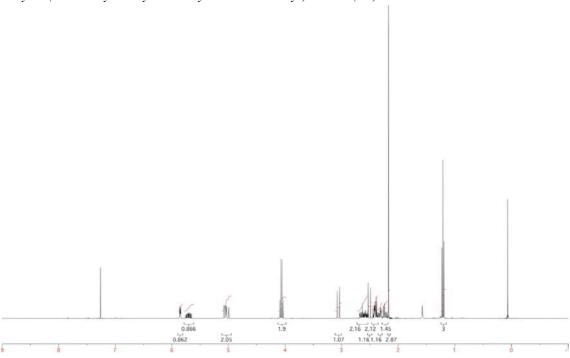


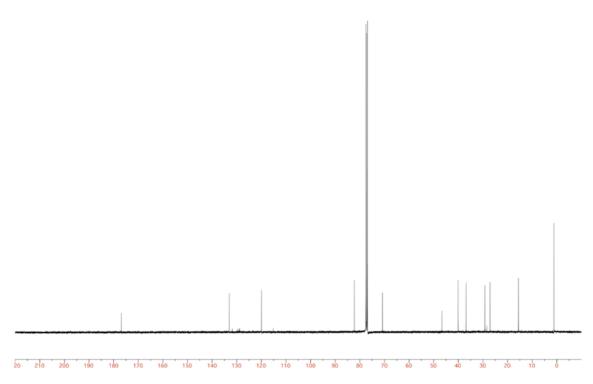


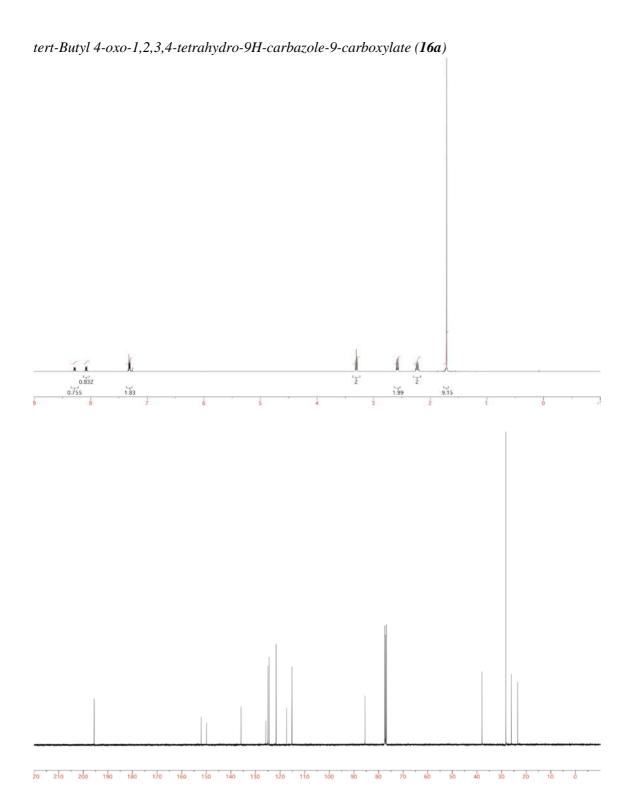


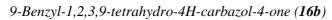


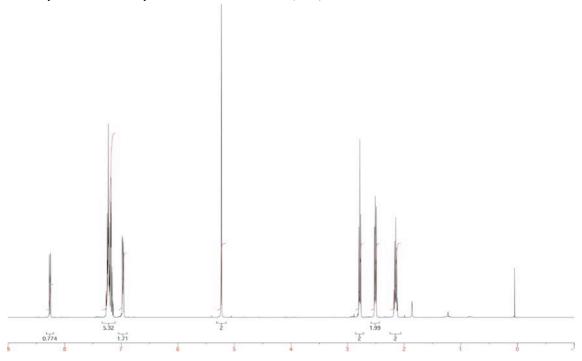


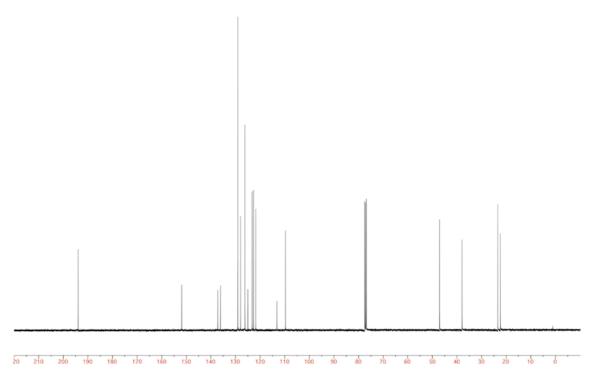


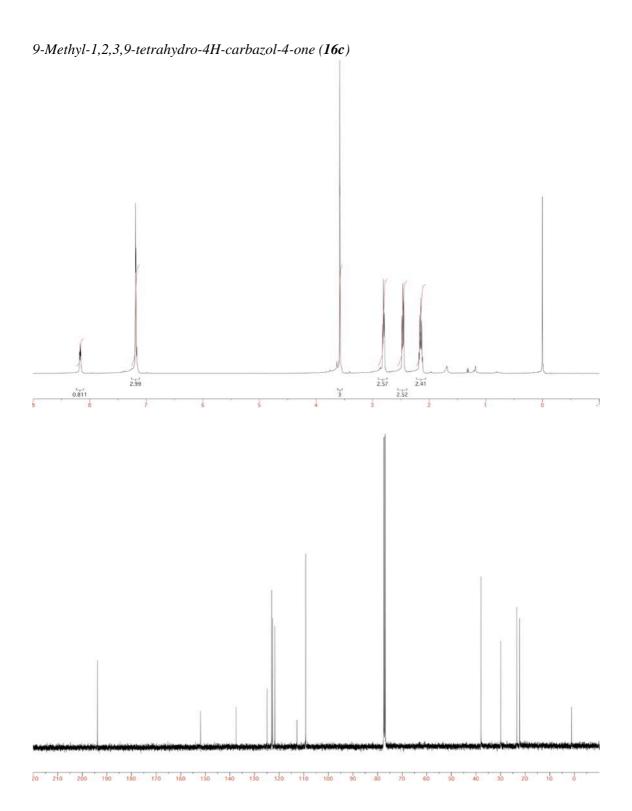




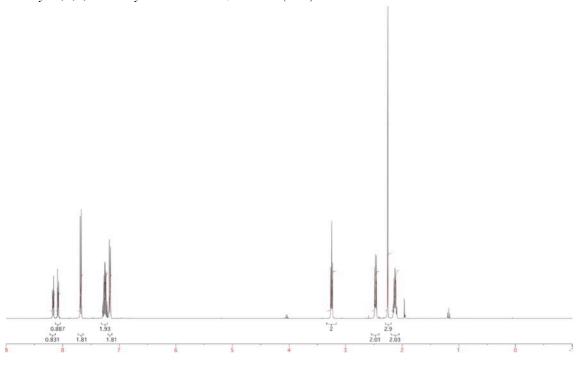


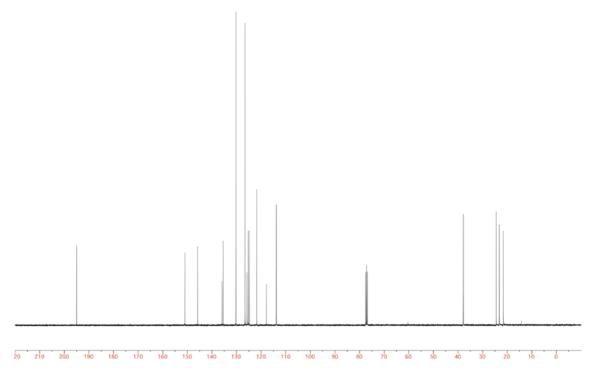


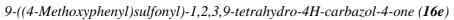


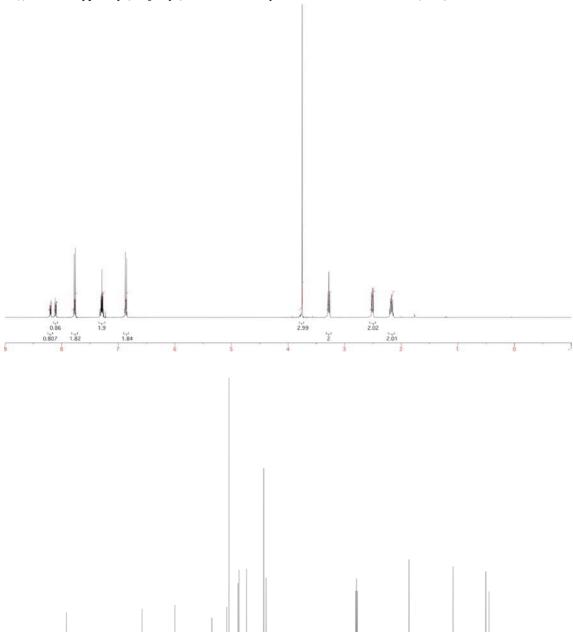


9-Tosyl-1,2,3,9-tetrahydro-4H-carbazol-4-one (16d)

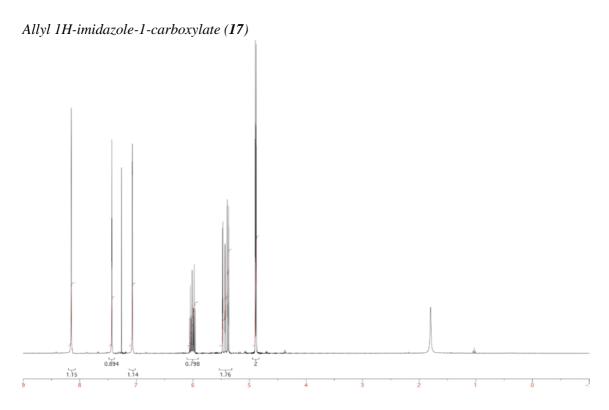


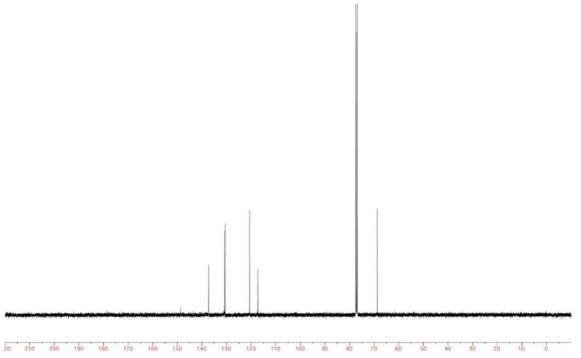


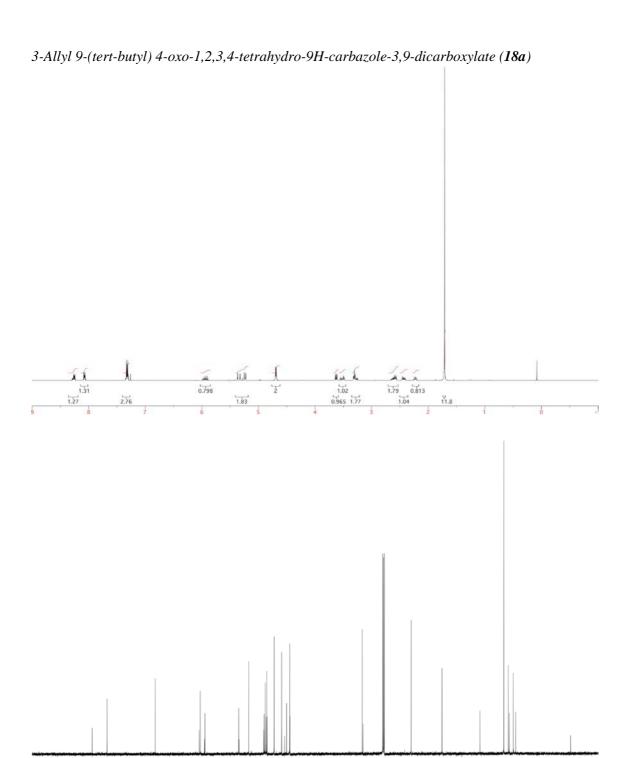




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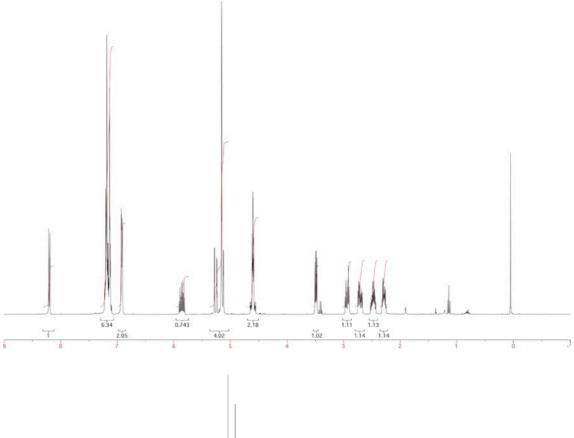


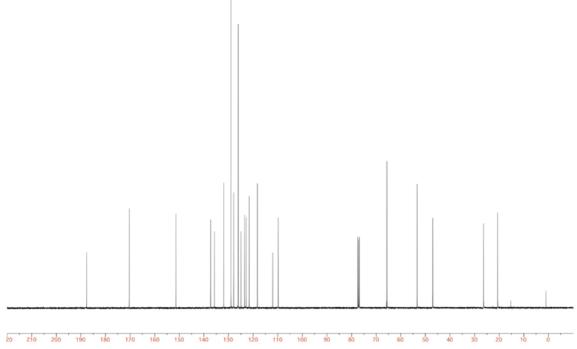


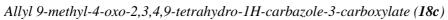


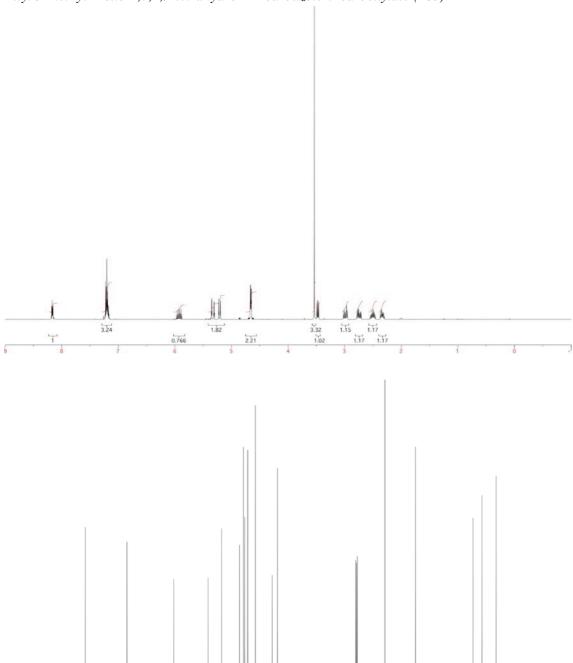
20 210 200 190 180 170 160 150 140 130 120 110

Allyl 9-benzyl-4-oxo-2,3,4,9-tetrahydro-1H-carbazole-3-carboxylate (18b)

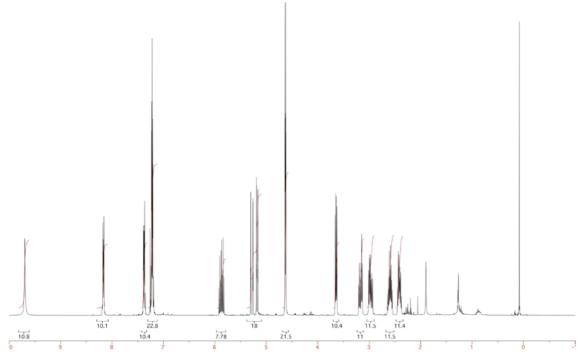


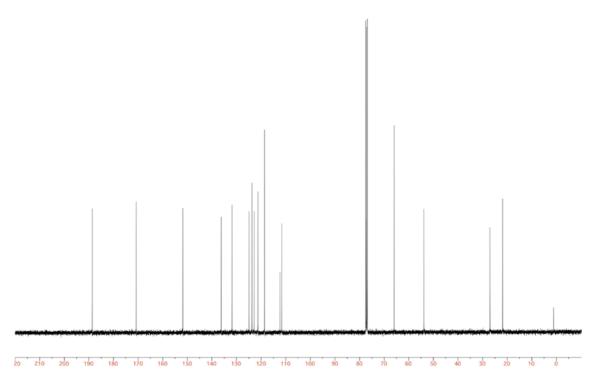


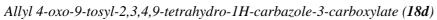


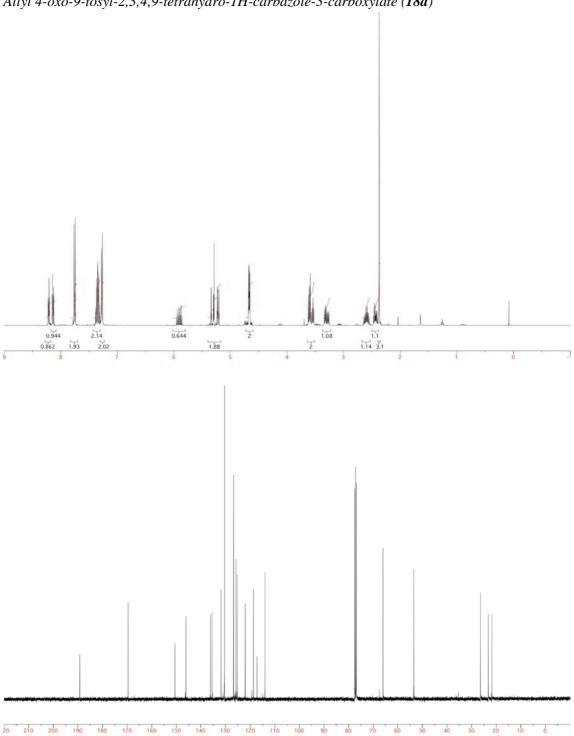


 $Allyl\ 4-oxo-2,3,4,9-tetrahydro-1H-carbazole-3-carboxylate\ (\textbf{16f})$ 









Allyl 9-((4-methoxyphenyl)sulfonyl)-4-oxo-2,3,4,9-tetrahydro-1H-carbazole-3-carboxylate

