Reactions of 1,2-Bis(trimethylsilyloxy)cycloalkenes with the Diethyl Acetals of Aldehydes

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NMR spectra of 2-methyl-1,3-cyclohexanedione (6a)

^1H NMR (500 MHz) in TFA

^{13}C NMR (125 MHz) in TFA

NMR spectra of 2-nonylcyclopentane-1,3-dione (6b)

^1H NMR (500 MHz) in TFA

^{13}C NMR (125 MHz) in TFA

NMR spectra of 2-(2,6-dimethylheptyl)cyclopentane-1,3-dione (6c)

^1H NMR (500 MHz) in TFA

^{13}C NMR (125 MHz) in TFA

NMR spectra of 2-cyclohexylcyclopentane-1,3-dione (6d)

^1H NMR (500 MHz) in TFA

^{13}C NMR (125 MHz) in TFA

NMR spectra of 2-phenylcyclopentane-1,3-dione (6e)

^1H NMR (500 MHz) in TFA

^{13}C NMR (125 MHz) in TFA

NMR spectra of 2-(3-phenyl-2-propenyl)cyclopentane-1,3-dione (6f)

^1H NMR (500 MHz) in TFA

^{13}C NMR (125 MHz) in TFA

NMR spectra of (*cis*)-8-methylbicyclo[4.3.0]nonane-7,9-dione (8a**)**

^1H NMR (250 MHz) in TFA

^{13}C NMR (62.5 MHz) in TFA

NMR spectra of (*cis*)-8-nonylbicyclo[4.3.0]nonane-7,9-dione (**8b**)

^1H NMR (250 MHz) in TFA

^{13}C NMR (62.5 MHz) in CDCl_3

NMR spectra of (*cis*)-8-(2,6-dimethylheptyl)bicyclo[4.3.0]nonane-7,9-dione (**8c**)

^1H NMR (250 MHz) in CDCl_3

^{13}C NMR (62.5 MHz) in CDCl_3

NMR spectra of (*cis*)-8-cyclohexylbicyclo[4.3.0]nonane-7,9-dione (**8d**)

^1H NMR (250 MHz) in TFA

^{13}C NMR (62.5 MHz) in TFA

NMR spectra of (*cis*)-8-phenylbicyclo[4.3.0]nonane-7,9-dione (**8e**)

NMR spectra of (*cis*)-8-phenylbicyclo[4.3.0]nonane-7,9-dione (**8f**)

NMR spectra of 2-ethyl-3,4,6,7-tetrahydro-2*H*-cyclopenta[*b*]pyran-5-one (11)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

3,4,4-Trimethylcyclopentane-1,2-dione (15a)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

4,4-Dimethyl-3-nonylcyclopentane-1,2-dione (15b)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

3-(2,6-Dimethylheptyl)-4,4-dimethylcyclopentane-1,2-dione (15c)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

3-Cyclohexyl-4,4-dimethylcyclopentane-1,2-dione (15d)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

3-Cyclohexyl-4,4-dimethylcyclopentane-1,2-dione (15e)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

3-Ethylcyclopentane-1,2-dione (18a)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

3-Decylcyclopentane-1,2-dione (18b)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

3-(3,7-Dimethyloctyl)cyclopentane-1,2-dione (18c)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

3-(Cyclohexylmethyl)cyclopentane-1,2-dione (18d)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

3-(Phenylmethyl)cyclopentane-1,2-dione (18e)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

2-(2-Naphthyl)cyclohexane-1,3-dione (23)

^1H NMR (500 MHz) in CDCl_3

^{13}C NMR (125 MHz) in CDCl_3

ORTEP of 3-(phenylmethyl)cyclopentane-1,2-dione (18e)