Synthesis of indoxylic acid esters by rhodium carbene N-H insertion and thermal cyclization

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Supplementary Material

Copies of NMR Spectra
Diethyl diazopropanedioate
4-Chloro-\(N\)-(4-methoxyphenyl)methylaniline 1f
Diethyl 2-[N-(2-bromophenyl)-N-methylamino]propanedioate 2a
Diethyl 2-[N-(2-methoxyphenyl)-N-methylamino]propanedioate 2b
Diethyl 2-[N-(3-bromophenyl)-N-methylamino]propanedioate 2c
Diethyl 2-[N-(4-bromophenyl)-N-methylamino]propanedioate 2d
Diethyl 2-[N-(4-chlorophenyl)-N-methylamino]propanedioate 2e
Diethyl 2-[N-(4-chlorophenyl)-N-(4-methoxybenzyl)amino]propanedioate 2f
Diethyl 2-[N-(4-methoxyphenyl)-N-methylamino]propanedioate 2g
Diethyl 2-[N-methyl-N-(4-methylphenyl)amino]propanedioate 2h
Diethyl 2-[N-methyl-N-(4-nitrophenyl)amino]propanedioate 2i
Diethyl 2-[N-(4-methoxycarbonylphenyl)-N-methylamino]propanedioate 2j
Ethyl 7-bromo-3-hydroxy-1-methyl-1H-indole-2-carboxylate 3a
Ethyl 5-bromo-3-hydroxy-1-methyl-1H-indole-2-carboxylate 3b
Ethyl 5-chloro-3-hydroxy-1-methyl-1H-indole-2-carboxylate 3c
Ethyl 5-chloro-3-hydroxy-1-(4-methoxybenzyl)-1H-indole-2-carboxylate 3d
Ethyl 3-hydroxy-5-methoxy-1-methyl-1H-indole-2-carboxylate 3e
2-Ethyl 5-methyl 3-hydroxy-1-methyl-1H-indole-2,5-dicarboxylate 3f