Iron-phosphine, -phosphite, -arsine and –
carbene catalysts for the coupling of primary
and secondary alkyl halides with aryl Grignard
reagents.

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SUPPORTING INFORMATION

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¹ H NMR spectrum of 1-Cyclohexyl-4-methoxybenzene, 7	S4
¹³ C NMR spectrum of 1-Cyclohexyl-4-methoxybenzene, 7	S5
¹ H NMR spectrum of 1-Cyclohexyl-2-methylbenzene, 8	S6
¹³ C NMR spectrum of 1-Cyclohexyl-2-methylbenzene, 8	S7
¹ H NMR spectrum of 1-Methyl-4-(4-methylcyclohexyl)benzene, 10	S8
¹³ C NMR spectrum of 1-Methyl-4-(4-methylcyclohexyl)benzene, 10	S9
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¹³ C NMR spectrum of 1-Methyl-4-octylbenzene, 13	S15

1-Cyclohexyl-4-methylbenzene, 6

1-Cyclohexyl-4-methylbenzene, 6

1-Cyclohexyl-4-methoxybenzene, 7

1-Cyclohexyl-4-methoxybenzene, 7

1-Methyl-4-(4-methylcyclohexyl)benzene, 10

1-Methyl-4-(4-methylcyclohexyl)benzene, 10

1-Methyl-4-(pentan-3-yl)benzene, 11

142.834
135.195
128.970
127.801

49.421
40.918
39.381
35.138
31.656
30.299
29.457
22.552
21.138
20.979
14.279
12.354

1-Methyl-4-octylbenzene, 13

1-Methyl-4-octylbenzene, 13