SUPPORTING INFORMATION

Asymmetric α -alkynylation of piperidine via N-sulfinyliminium salts

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General:

Reagents were commercially obtained at highest commercial quality and used without further purification. All non-aqueous reactions were carried out under anhydrous conditions within an argon atmosphere in dry freshly distilled solvents. Column chromatography was performed on silica gel grade 60 (230-400 mesh). TLC plates were visualised by UV and phosphomolybdic acid staining. Melting points were uncorrected. Optical rotations were obtained at sodium D-line and IR spectra were recorded using NaCl plates. ^1H NMR and ^{13}C NMR spectra were recorded at 300 and 75 MHz respectively.

13.50
18.66
20.04
20.74
22.20
25.87
32.68
40.97
48.85
76.62
77.04
77.46
77.50
86.16
125.54
126.02
130.65
131.02

19.87
25.28
31.70
40.29
49.40

76.62
77.04
77.46
86.62
86.95

121.96
122.85
125.60
126.62
127.42
127.48
127.55
128.15
130.94
131.72
131.85

16.14
19.68
25.10
31.35
31.70
39.40
43.72
49.59
76.63
77.06
77.48
78.41
84.32
126.67
127.47
127.54
130.89
131.79

31

4.59
4.60

6.06
6.07
6.08
6.09

7.58
7.60
7.63
7.72
7.73
7.75
7.75
7.75
7.77
8.22
8.22
8.24
8.25