

CYCLOHEXYL PINACOLYL METHYLTHIOPHOSPHONATE

14-3-14

Instrument: Bruker AC-250
Nucleus: $^{13}\text{C}\{^1\text{H}\}$
Frequency: 62.89 Hz

Solvent: CDCl_3
Concentration: 17 mg/ml
Temperature: 23°C
Reference: TMS (int.)
Spectral width: 15 625 Hz
Pulse width: 2.3 μs (45°)
Repetition time: 2.1 s
Data points
FID/Spectrum: 32 K/32 K
Scans: 30 000
Line broadening: 0.5 Hz (exp.)
Resolution: 0.9 Hz (TMS)

Assignments

- a: $\delta = 25.82, 25.89$
- b: $\delta = 16.64(\text{d}); J = 1.0 \text{ Hz}$,
 $\delta = 16.85$
- c: $\delta = 25.23$
- d: $\delta = 23.62, 23.72, 23.68, 23.77$
- e: $\delta = 33.48, 33.54$,
 $\delta = 33.60(\text{d}); J = 3.8 \text{ Hz}$,
 $\delta = 33.64(\text{d}); J = 4.8 \text{ Hz}$
- f: $\delta = 23.16(\text{d}); J = 118.3 \text{ Hz}$,
 $\delta = 24.30(\text{d}); J = 116.8 \text{ Hz}$
- g: $\delta = 81.73(\text{d}); J = 8.1 \text{ Hz}$,
 $\delta = 82.07(\text{d}); J = 8.1 \text{ Hz}$
- h: $\delta = 75.95(\text{d}); J = 6.7 \text{ Hz}$,
 $\delta = 76.13(\text{d}); J = 7.4 \text{ Hz}$
- i: $\delta = 34.87(\text{d}); J = 6.2 \text{ Hz}$,
 $\delta = 34.90(\text{d}); J = 7.6 \text{ Hz}$

