

ISOPROPYL PINACOLYL METHYLTHIOPHOSPHONATE

14-3-37

Instrument: Bruker AC-250
Nucleus: ^1H
Frequency: 250.13 Hz

Solvent: CDCl_3
Concentration: 21 mg/ml
Temperature: 23°C
Reference: TMS (int.)
Spectral width: 2873.6 Hz
Pulse width: 4.7 μs (45°)
Repetition time: 12.4 s

Data points
FID/Spectrum: 64 K/64 K
Scans: 64
Line broadening: 0.05 Hz (exp.)
Resolution: 0.4 Hz (TMS)

Assignments

- a: $\delta = 0.911, 0.918$
- b: $\delta = 1.24(\text{dd});$
 $J_{b-e} = 6.4 \text{ Hz}, J_{b-p} = 0.5 \text{ Hz}$
 $\delta = 1.25(\text{dd});$
 $J_{b-e} = 6.4 \text{ Hz}, J_{b-p} = 0.2 \text{ Hz}$
- c: $\delta = 1.30(\text{d}); J_{c-f} = 6.2 \text{ Hz}$
- d: $\delta = 1.771(\text{d}); J_{d-p} = 15.4 \text{ Hz}$
 $\delta = 1.774(\text{d}); J_{d-p} = 15.4 \text{ Hz}$
- e: $\delta = 4.31(\text{dq});$
 $J_{e-p} = 12.1 \text{ Hz}, J_{e-b} = 6.4 \text{ Hz}$
 $\delta = 4.41(\text{dq});$
 $J_{e-p} = 11.7 \text{ Hz}, J_{e-b} = 6.4 \text{ Hz}$
- f: $\delta = 4.80(\text{d, sept.});$
 $J_{f-p} = 11.9 \text{ Hz}, J_{f-c} = 6.2 \text{ Hz}$
 $\delta = 4.83(\text{d, sept.});$
 $J_{f-p} = 11.8 \text{ Hz}, J_{f-c} = 6.2 \text{ Hz}$

