

# DIPINACOLYL METHYLTHIOPHOSPHONATE

14-3-19

Instrument: Bruker AC-250  
Nucleus: <sup>1</sup>H  
Frequency: 250.13 Hz

Solvent: CDCl<sub>3</sub>  
Concentration: 16 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: 0.7 Hz (TMS)

## Assignments

- a: δ = 0.914, 0.917, 0.933  
b: δ = 1.24 - 1.29 (unresolved),  
δ = 1.27(d); J<sub>b-d</sub> = 6.4 Hz  
c: δ = 1.78(d); J<sub>c-p</sub> = 15.3 Hz,  
δ = 1.79(d); J<sub>c-p</sub> = 15.1 Hz  
d: δ = 4.26(dq);  
J<sub>d-p</sub> = 12.0 Hz, J<sub>d-b</sub> = 6.4 Hz,  
δ = 4.36(dq);  
J<sub>d-p</sub> = 11.6 Hz, J<sub>d-b</sub> = 6.3 Hz,  
δ = 4.37(dq) (minor unresolved component)

