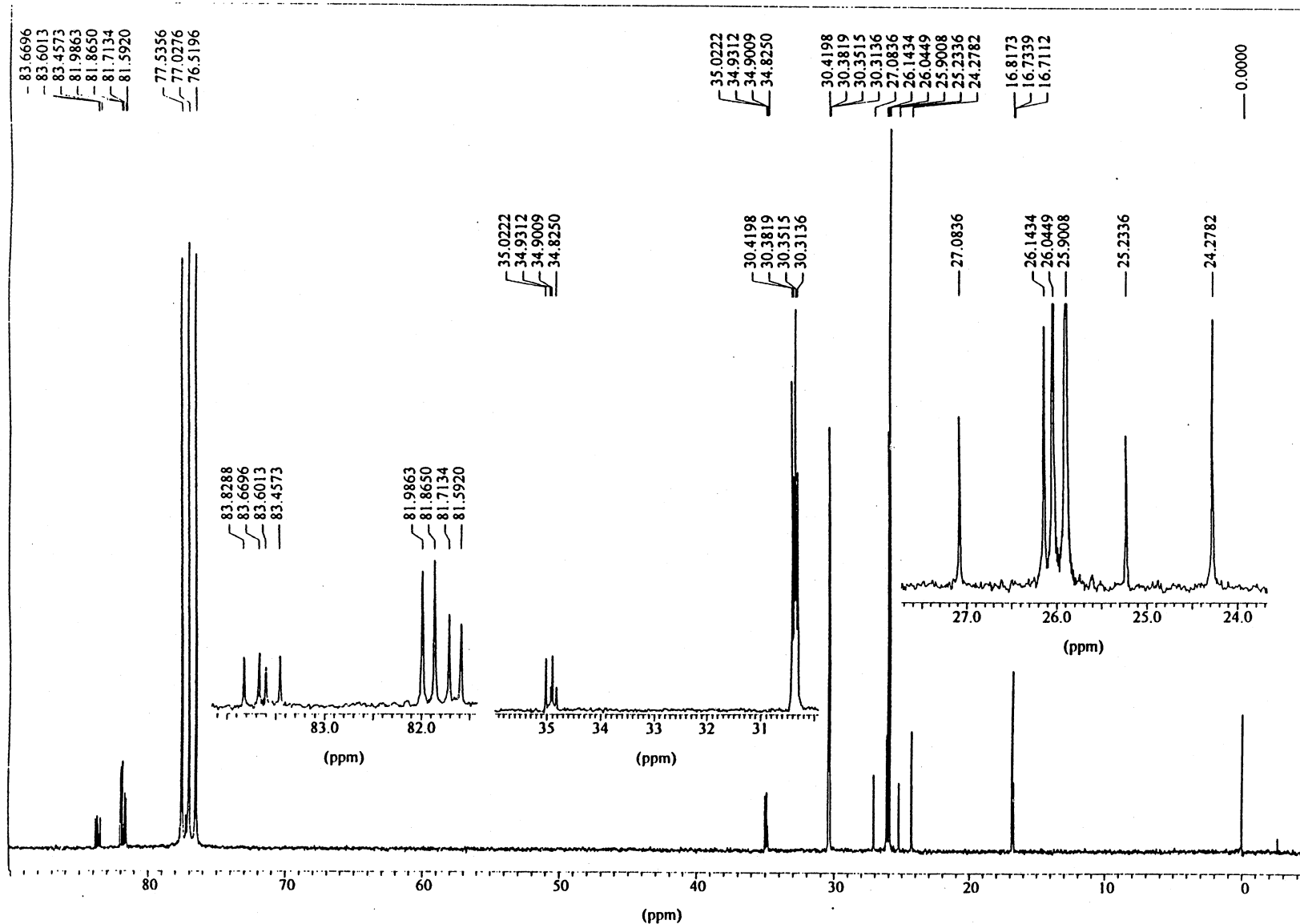


# TERT-BUTYL PINACOLYL METHYLTHIOPHOSPHONATE

14-3-17

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

Solvent:  $\text{CDCl}_3$   
Concentration: 16 mg/ml  
Temperature: 23°C  
Reference: TMS (int.)  
Spectral width: 15 625 Hz  
Pulse width: 2.3  $\mu\text{s}$  (45°)  
Repetition time: 2.1 s  
Data points  
FID/Spectrum: 32 K/32 K  
Scans: 30 000  
Line broadening: 0.5 Hz (exp.)  
Resolution: 0.8 Hz (TMS)



## Assignments

- a:  $\delta = 25.90, 26.04$
- b:  $\delta = 16.72(\text{d}); J = 1.4 \text{ Hz}$ ,  
 $\delta = 16.82$
- c:  $\delta = 30.35(\text{d}); J = 4.3 \text{ Hz}$ ,  
 $\delta = 30.39(\text{d}); J = 4.3 \text{ Hz}$
- d:  $\delta = 25.21(\text{d}); J = 117.3 \text{ Hz}$ ,  
 $\delta = 26.16(\text{d}); J = 116.4 \text{ Hz}$
- e:  $\delta = 81.65(\text{d}); J = 7.6 \text{ Hz}$ ,  
 $\delta = 81.93(\text{d}); J = 7.6 \text{ Hz}$
- f:  $\delta = 34.88(\text{d}); J = 6.7 \text{ Hz}$ ,  
 $\delta = 34.96(\text{d}); J = 7.6 \text{ Hz}$
- g:  $\delta = 83.53(\text{d}); J = 9.1 \text{ Hz}$ ,  
 $\delta = 83.75(\text{d}); J = 10.0 \text{ Hz}$

