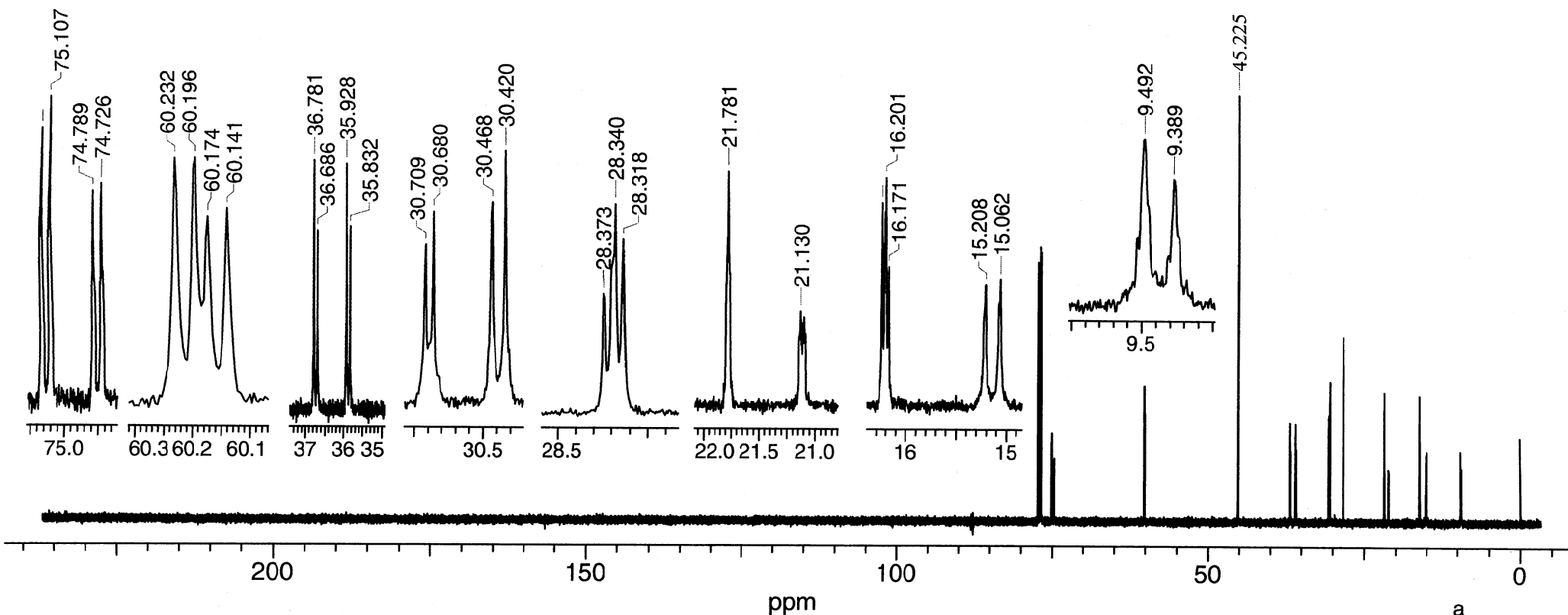


sec-Butyl S-2-dimethylaminoethyl propylphosphonothiolate

$^{13}\text{C}\{^1\text{H}\}$ NMR

7-3-753



Res.freq: 125.697 MHz

Pulse Width: 3.5 μs [45°]

nuc δ [ppm]

J[Hz]

Solvent: CDCl_3

Number of Scans: 1024

a,a': 9.39, 9.49

$J(\text{b},\text{P}) = 6.0, J(\text{b}',\text{P}') = 3.7$

Temperature: 28°C

Line Broadening: exp. 0.5 Hz

b,b': 30.45, 30.69

$J(\text{c},\text{P}) = J(\text{c}',\text{P}') = 7.8$

Concentration: 0.077 $\mu\text{l}/\mu\text{l}$

Rep.time: 1.85 s

c,c': 74.76, 75.14

$J(\text{d},\text{P}) = 5.5$

Reference: TMS [internal]

Resolution: 0.9 Hz (TMS)

d,d': 21.11, 21.78

$J(\text{e},\text{P}) = J(\text{e}',\text{P}') = 107.3$

Spectral Width: 31298.9 Hz

Instrument: Varian INOVA 500

e,e': 36.26, 36.35

$J(\text{f},\text{P}) = J(\text{f}',\text{P}') = 5.1$

Data points [Fid]: 115712

Um Mein

f,f': 16.17, 16.23

$J(\text{g},\text{P}) = 18.4$

Data Points [Spectrum]: 256K

Um Mein

g: 15.14

$J(\text{h},\text{P}) = J(\text{h}',\text{P}') = 2.8$

mixture of diastereomers

h,h': 28.33, 28.36

$J(\text{i},\text{P}) = 4.1, J(\text{i}',\text{P}') = 4.6$

i: 60.16, 60.21

j: 45.23

