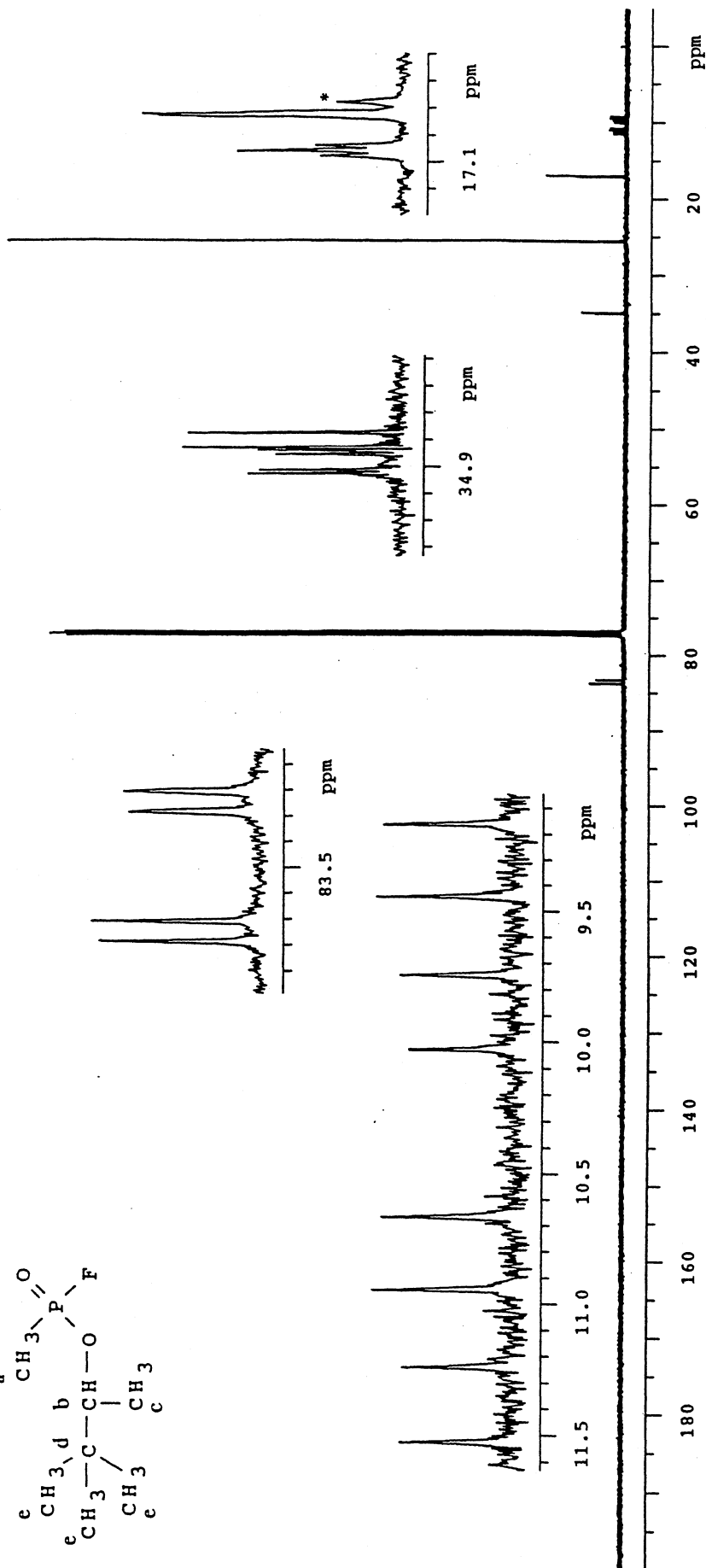
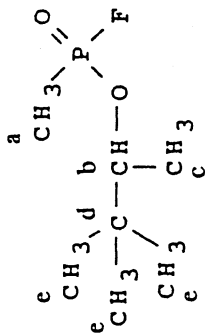


5-3-15

¹³C{¹H} NMR

Pinacolyl methylphosphonofluoridate (Soman)

96-64-0



δ [ppm]	nuc.	δ [ppm] ^(a) [Hz]	δ [ppm] ^(b) [Hz]
10.64	a	151.4 (P)	150.7 (P)
83.75	b	8.0 (P)	7.9 (P)
17.06	c	16.93	1.9 (F)
34.80	d	34.88	5.5 (P)
25.42	e	25.42	25.42

(a) more abundant, (b) less abundant diastereomer.

Solvent: CDCl₃
 Concentration: 18.6 mg/1.1 ml
 Reference substance: TMS
 Sample temperature: 29.5 °C
 Resonance frequency: 100.624 MHz
 Spectral width: 23809.5 Hz
 Flip angle; Pulse width: 33 °; 2.6 μs
 No. of scans; Rep. time: 10240; 3.7 s
 Weighting; Line broad.: exp.; 0.5 Hz
 Spectral resolution: 1.0 Hz (C-e)
 Instrument: Bruker AMX-400
 Source reference: 930211-443