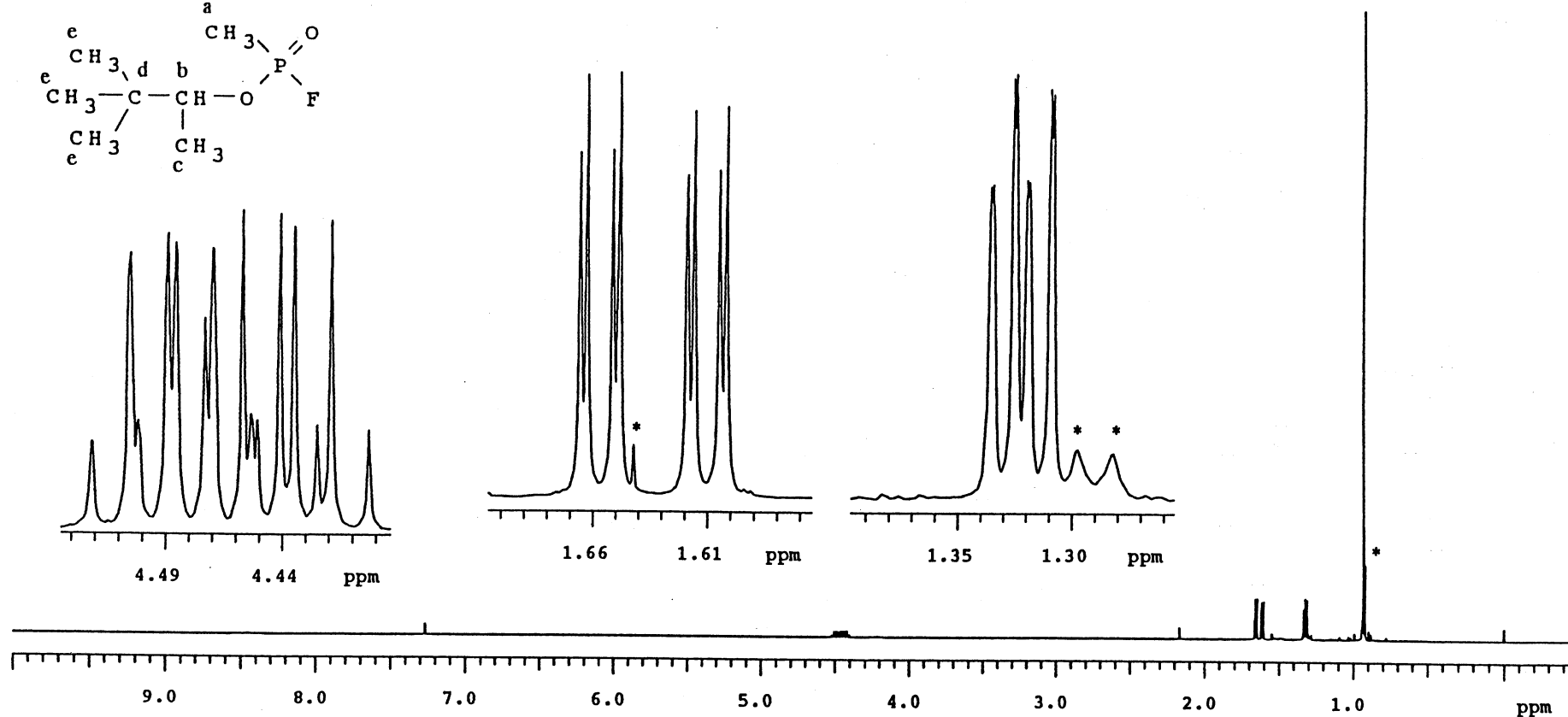
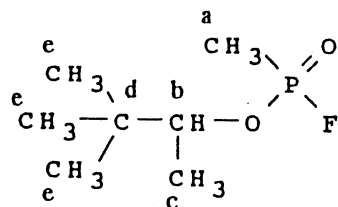


¹H NMR

Pinacolyl methylphosphonofluoridate (Soman)

96-64-0



Solvent: CDCl_3
 Concentration: 18.6 mg/1.1 ml
 Reference substance: TMS
 Sample temperature: 29.5 °C
 Resonance frequency: 400.136 MHz
 Spectral width: 4201.7 Hz
 Data points (FID; spec.): 64 k; 32 k

Flip angle; Pulse width: 45 °; 6.2 μs
 No. of scans; Rep. time: 32; 23.8 s
 Weighting; Line broad.: exp.; 0.1 Hz
 Spectral resolution: 0.2 Hz (TMS)
 Instrument: Bruker AMX-400
 Source reference: 921013-90

nuc.	δ [ppm] ^(a)	J [Hz]	nuc.	δ [ppm] ^(b)	J [Hz]
a	1.632	18.7 (P); 5.7 (F)	a	1.635	18.7 (P); 5.7 (F)
b	4.487	6.4 (c); 7.8 (P)	b	4.438	6.4 (c); 8.9 (P)
c	1.317	6.4 (b); 0.6 (P)	c	1.327	6.4 (b); 0.7 (F)
e	0.935		e	0.935	

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