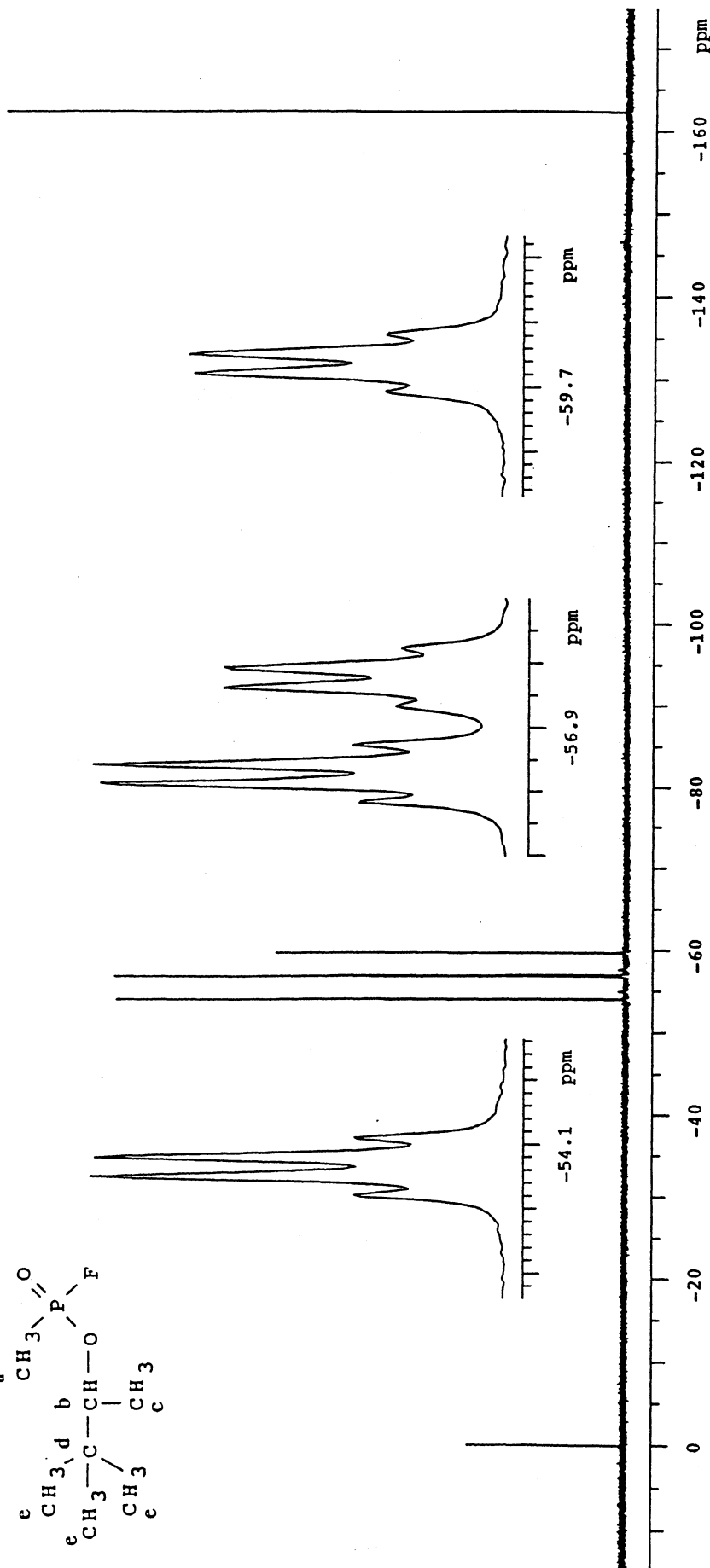
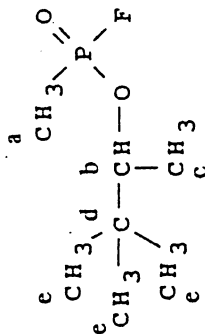


5-3-16

¹⁹F NMR

Pinacolyl methylphosphonofluoridate (Soman)

96-64-0



Solvent:	CDCl ₃	Flip angle; Pulse width:	45°; 6.6 μs	nuc. δ [ppm] ^(a) J [Hz]	nuc. δ [ppm] ^(b) J [Hz]
Concentration:	18.6 mg/1.1 ml	No. of scans; Rep. time:	16; 16.9 s	F -55.47 1047.1 (P); 5.6 (a)	F -58.33 1046.6 (P); 5.6 (a)
Reference substance:	CFC ₃ ; C ₆ F ₆	Weighting; Line broad.:	exp.; 1.0 Hz		
Sample temperature:	29.5 °C	Spectral resolution:	0.6 Hz (C ₆ F ₆)		
Resonance frequency:	376.473 MHz	Instrument:	Bruker AMX-400		
Spectral width:	71428.6 Hz	Source reference:	930211-441		
Data points (FID; spec.):	128 k; 128 k				

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

Additional reference: δ(C₆F₆) = -162.30 vs. δ(CFC₃) = 0.00