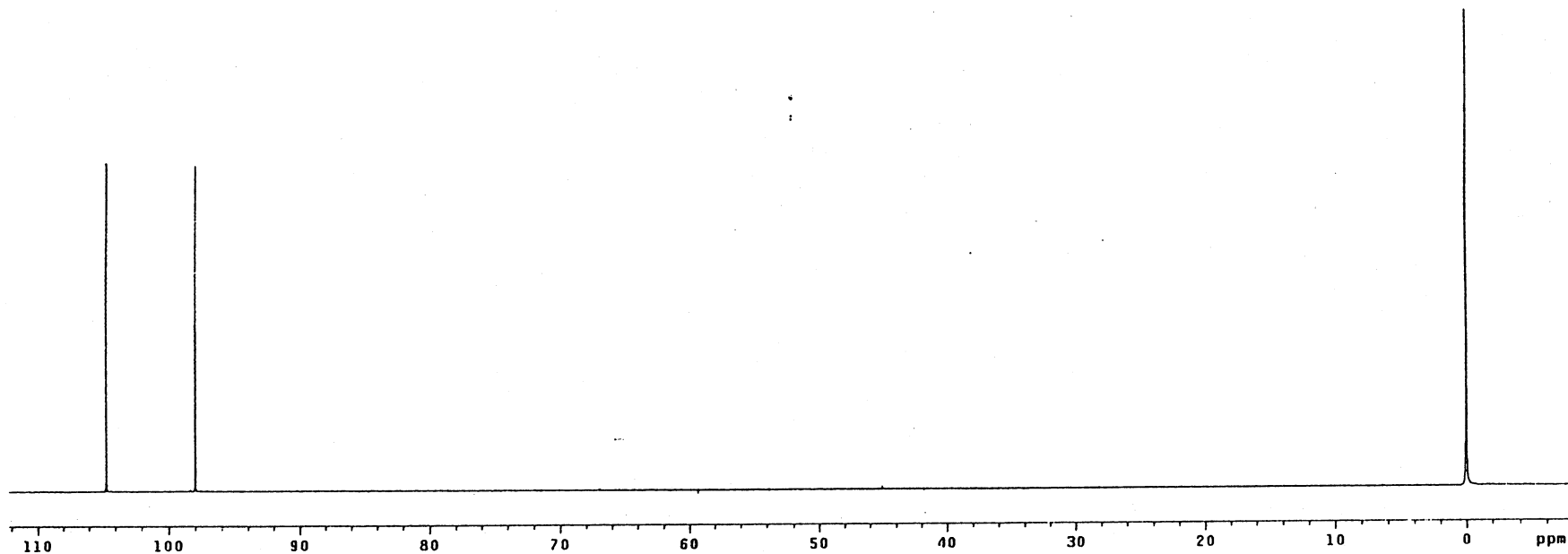
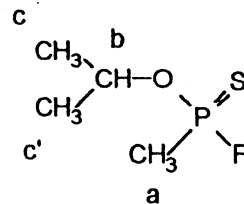


31P-NMR p1121b2(1H) + cap 85X H3PO4  
 thiosarin in ca 0.7ml CDCl3  
 214195126.006 frrn.342;145/200  
 Solvent: CDCl3  
 Temp. 30.0 C / 303.1 K  
 User: pm1  
 File: p1121b2  
 VXR-400S "pmlvvr"  
 PULSE SEQUENCE  
 Relax. delay 3.400 sec  
 Pulse 60.0 degrees  
 Acq. time 3.291 sec  
 Width 19445.8 Hz  
 12 repetitions  
 OBSERVE P31, 161.9046986 MHz  
 DECOUPLE H1, 399.9571985 MHz  
 Power 44 db  
 on during acquisition  
 off during delay  
 WALTZ-16 modulated  
 DATA PROCESSING  
 Line broadening 0.1 Hz  
 FT size 262144  
 Total time 1 minutes

SPECTRAL LINES for th-39.8

rf1- 1273.5 rfp- 0.0  
 H3PO4 external; dres 104.7ppm:1.5 Hz

nr	Hz	ppm	intensity
1	16950.96	104.692	47.3
2	15864.96	97.984	46.9
3	0.00	0.000	69.6



Isopropyl methylthiophosphonofluoridate(thiosarin)  
 CAS 4241-37-6  
 Nucleus :  $^{31}\text{P}\{^1\text{H}\}$   
 Frequency : 161.9 MHz  
 Concentration : ca. 179 mg/0.7 ml CDCl<sub>3</sub>  
 Reference H<sub>3</sub>PO<sub>4</sub> external. Res. : 1.5 Hz (104.7 ppm)  
 Instrument : Varian VXR 400S

Temperature : 30 °C  
 Spectral width : 19445.8 Hz  
 Data point (FID) : 64 K  
 Pulse angle : 10.4 μs (60°)  
 Number of pulses : 12  
 Repetition time : 6.7 s  
 Line broadening : 0.1 Hz  
 Data points (spec) : 256 K  
 P: 101.3 ppm J(PF) : 1086.1 Hz