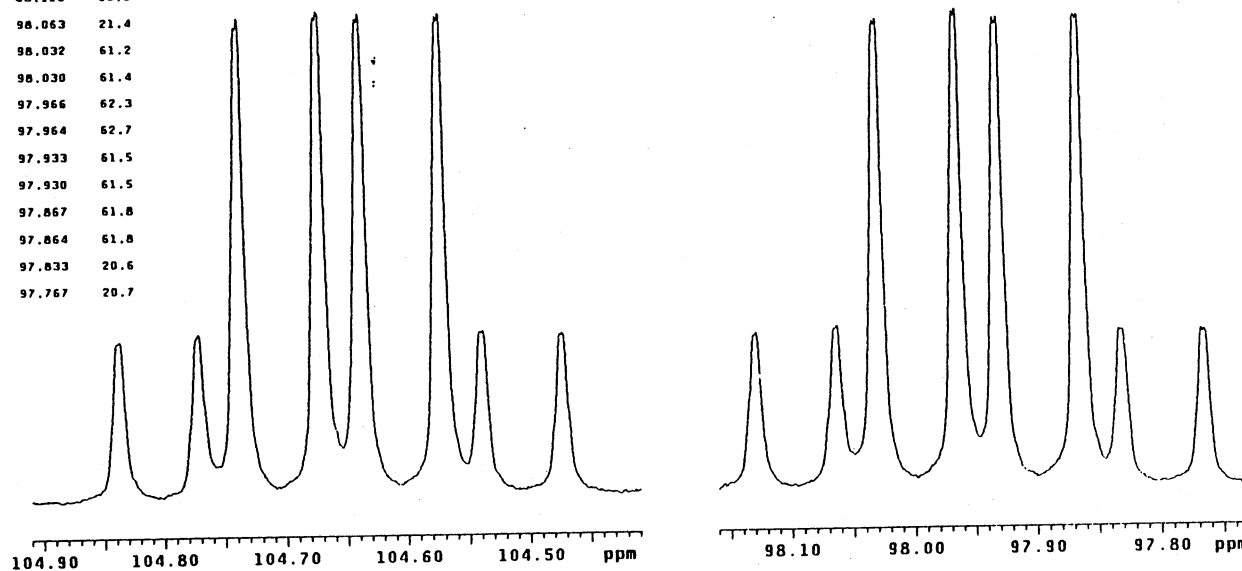
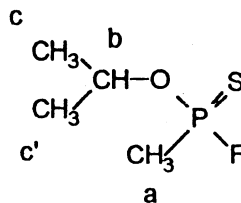


31P-NMR p1121c dm-n
 thiosarin in ca 0.7ml CDCl3
 214195126.006 jrn.342;145/200
 Solvent: CDCl3
 Temp. 30.0 C / 303.1 K
 User: pm1
 File: p1121c
 VXR-400S "pmlvvr"
 PULSE SEQUENCE
 Relax. delay 1.000 sec
 Pulse 60.0 degrees
 Acq. time 5.623 sec
 Width 1456.8 Hz
 16 repetitions
 OBSERVE P31, 161.9047057 MHz
 DATA PROCESSING
 Line broadening 0.1 Hz
 FT size 32768
 Total time 1 minutes

SPECTRAL LINES for th-14.8
 rfl= 15089.2 rfp= 17261.5
 dres 104.7ppm:1.8 Hz

nr	Hz	ppm	intensity
1	16975.34	104.837	20.4
2	16964.67	104.771	21.3
3	16959.15	104.737	62.4
4	16948.57	104.672	63.2
5	16943.06	104.638	62.9
6	16932.83	104.575	62.5
7	16932.39	104.572	62.8
8	16926.97	104.538	21.4
9	16916.38	104.473	21.1
10	15889.18	98.129	20.6
11	15878.51	98.063	21.4
12	15873.45	98.032	61.2
13	15873.09	98.030	61.4
14	15862.78	97.966	62.3
15	15862.42	97.964	62.7
16	15857.35	97.933	61.5
17	15856.91	97.930	61.5
18	15846.68	97.867	61.8
19	15846.33	97.864	61.8
20	15841.26	97.833	20.6
21	15830.59	97.767	20.7



Isopropyl methylthiophosphonofluoridate(thiosarin)
 CAS 4241-37-6
 Nucleus : ³¹P
 Frequency : 161.9 MHz
 Concentration : ca. 179 mg/0.7 ml CDCl₃
 Reference H₃PO₄ external. Res. : 1.8 Hz (104.7 ppm)
 Instrument : Varian VXR 400S

Temperature : 30 °C
 Spectral width : 1456.8 Hz
 Data point (FID) : 16 K
 Pulse angle : 10.4 μs (60°)
 Number of pulses : 32
 Repetition time : 6.6 s
 Line broadening : 0.1 Hz
 Data points (spec) : 32 K

P: 101.3 ppm
 J(aP) : 16.1 Hz
 J(PF) : 1086.1 Hz
 J(bP) : 10.7 Hz
 J(cP) : ca 0.8 Hz