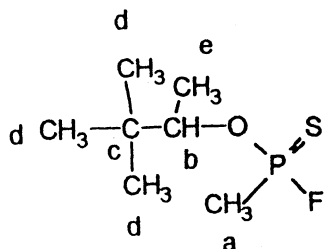


13C-NMR c1115b(1M)  
 thiosolan in ca 0.7ml CDCl3  
 214195126.006 Jrn.342;139/200  
 Solvent: CDCl3  
 Temp: 30.0 C / 303.1 K  
 User: pm1  
 File: c1115b  
 VXR-400S "pm1vvr"  
 PULSE SEQUENCE  
 Relax. delay 1.000 sec  
 Pulse 60.0 degrees  
 Acq. time 1.558 sec  
 Width 20502.3 Hz  
 6000 repetitions  
 OBSERVE C13, 100.5600005 MHz  
 DECOUPLE H1, 399.9571862 MHz  
 Power 44 db  
 continuously on  
 WALTZ-16 modulated  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 262144  
 Total time 4.3 hours



SPECTRAL LINES for th=3.0  
 rfl= 8393.3 rfp= 7754.6  
 CDC13 internal=77.1ppm

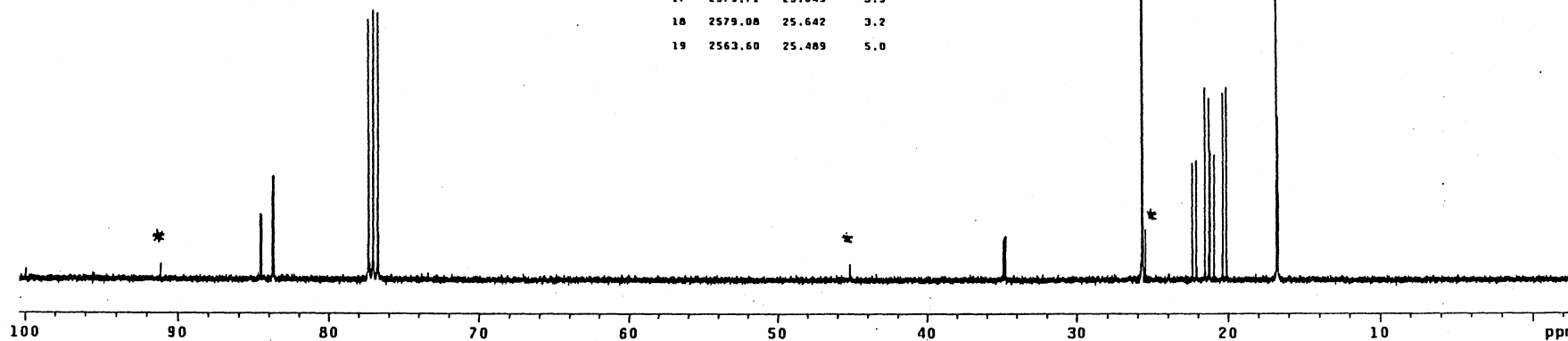
nr	Hz	ppm	intensity
1	8511.52	84.626	6.2
2	8510.27	84.613	5.8
3	8503.07	84.542	6.2
4	8501.98	84.531	5.7
5	8429.87	83.814	9.7
6	8428.15	83.797	9.8
7	8421.11	83.727	9.4
8	8419.54	83.711	9.8

SPECTRAL LINES for th=3.0  
 rfl= 8393.3 rfp= 7754.6

nr	Hz	ppm	intensity
1	3515.11	34.949	3.9
2	3513.23	34.930	4.0
3	3506.35	34.862	4.2
4	3504.63	34.845	4.1
5	3499.46	34.793	4.3
6	3494.30	34.742	4.3
7	2591.28	25.764	3.2
8	2588.15	25.733	92.9
9	2586.28	25.714	7.4
10	2585.65	25.708	7.5
11	2585.03	25.702	9.3
12	2584.40	25.695	15.4
13	2582.99	25.681	244.1
14	2581.58	25.667	11.4
15	2580.96	25.661	7.0
16	2580.33	25.655	5.3
17	2579.71	25.649	3.9
18	2579.08	25.642	3.2
19	2563.60	25.489	5.0

SPECTRAL LINES for th=4.6  
 rfl= 8393.3 rfp= 7754.6

nr	Hz	ppm	intensity
1	2251.38	22.384	11.4
2	2224.94	22.121	11.6
3	2168.63	21.562	18.8
4	2143.14	21.308	17.8
5	2134.53	21.223	12.6
6	2108.25	20.961	12.2
7	2051.00	20.392	18.3
8	2025.51	20.139	18.8
9	1694.36	16.846	32.5
10	1693.74	16.840	36.9
11	1687.79	16.781	9.3
12	1684.98	16.753	16.0
13	1682.00	16.723	8.7



1,2,2-trimethylpropyl methylthiophosphonofluoridate  
 (2 diastereomers I and II) CAS 97931-17-4  
 Nucleus :  $^{13}\text{C}\{^1\text{H}\}$   
 Frequency : 100.6 MHz  
 Concentration : ca. 34 mg/0.7 ml  $\text{CDCl}_3$   
 Reference  $\text{CDCl}_3$  int 77.1 ppm. Res. : 0.6 Hz (20.1 ppm)  
 Instrument : Varian VXR 400S

Temperature : 30 °C  
 Spectral width : 20502.3 Hz  
 Data point (FID) : 64 K  
 Pulse angle : 13.0  $\mu\text{s}(60^\circ)$   
 Number of pulses : 6000  
 Repetition time : 2.6 s  
 Line broadening : 0.2 Hz  
 Data points (spec) : 256 K

	I / II	I / II	I / II
a:	20.8/21.6 ppm	J(aP) : 117.6/116.8 Hz	J(aF) : 25.5/26.4 Hz
b:	83.7/84.5 ppm	J(bP) : 8.7/8.2 Hz	J(bF) : 1.6/1.3 Hz
c:	34.8/34.7 ppm	J(cP) : 8.7/5.0 Hz	J(cF) : 1.8/0.0 Hz
d:	25.6/25.7 ppm	J(dP) : 0.6/2.8 Hz	J(dF) : 0.0/2.8 Hz
e:	16.8/16.7 ppm		