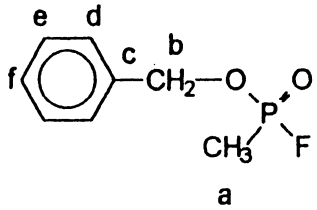
```
13C-NMR c1116b2(1H) + TMS
benzylsarin in ca 0.7ml CDCl3
214195126.006 jrn.342;140/200
 Solvent: CDCl3
 Temp. 30.0 C / 303.1 K
User: pml
File: c1116b2
VXR-400S "pmlvxr"
PULSE SEQUENCE
 Relax. delay 1.000 sec
 Pulse 60.0 degrees
 Acq. time 2.194 sec
 Width 14936.5 Hz
 768 repetitions
OBSERVE  C13, 100.5688065 MHz
DECOUPLE  H1, 399.9571862 MHz
 Power 44 dB
 continuously on
 WALTZ-16 modulated
DATA PROCESSING
 Line broadening 0.1 Hz
FT size 131072
Total time 41 minutes
```

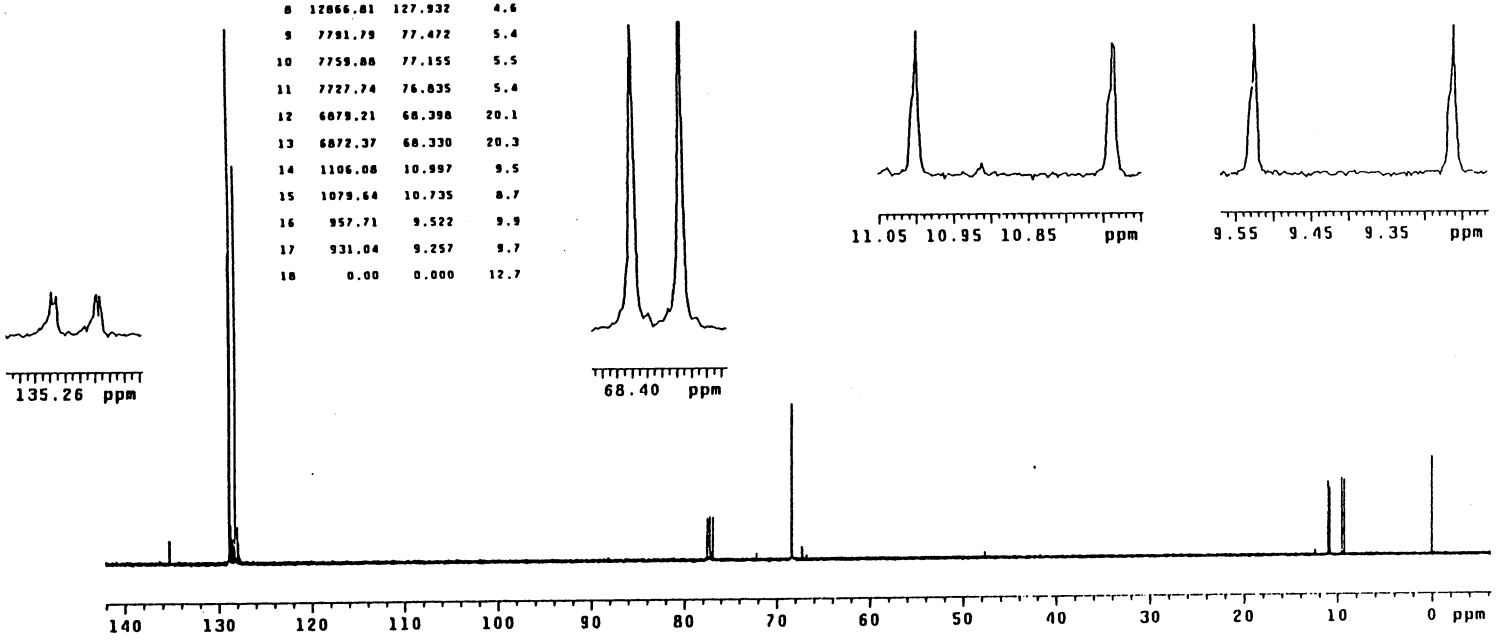
SPECTRAL LINES for th=4.1

rfl= 645.0 rfp= 0.0

TMS internal res:0.5Hz

nr	Hz	ppm	intensity
1	12969.14	128.949	23.4
2	12968.69	128.945	40.4
3	12953.64	128.795	37.5
4	12953.19	128.791	69.9
5	12952.51	128.784	7.1
6	12936.55	128.625	4.7
7	12895.75	128.219	52.1
8	12866.81	127.932	4.6
9	7791.79	77.472	5.4
10	7759.88	77.155	5.5
11	7727.74	76.835	5.4
12	6879.21	68.398	20.1
13	6872.37	68.330	20.3
14	1106.08	10.997	9.5
15	1079.64	10.735	8.7
16	957.71	9.522	9.9
17	931.04	9.257	9.7
18	0.00	0.000	12.7





Benzyl methylphosphonofluoridate (benzyl sarin)
CAS 14618-07-6

Nucleus :	$^{13}C\{^{1}H\}$
Frequency :	100.6 MHz
Concentration :	ca. 85 mg/0.7 ml $CDCl_3$
Reference TMS internal. Resolution. :	0.5 Hz (TMS)
Instrument :	Varian V[illegible] 400S

Temperature :	30 °C
Spectral width :	14936.5 Hz
Data point (FID) :	64 K
Pulse angle :	13.0 µs (60°)
Number of pulses :	768
Repetition time :	3.2 s
Line broadening :	0.1 Hz
Data points (spec) :	128 K

a:	10.1 ppm	J(aP) : 148.4 Hz	J(aF) : 26.6 Hz
b:	68.3 ppm	J(bP) : 6.6 Hz	J(cF) : 0.6 Hz
c:	135.2 ppm	J(cP) : 6.0 Hz	