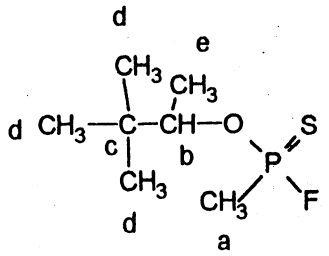
```
31P-NMR pi115b2(1H) + cap 85% H3PO4
ca 34mg 1,2,2-trimethylpropyl methyl-
thiophosphonofluoridate in ca 0.7ml CDCl3
214195126.006 jrn.342;139/200
OBSERVE P31
 FREQUENCY 161.914 MHz
 SPECTRAL WIDTH 20429.0 Hz
 ACQUISITION TIME 1.604 sec
 RELAXATION DELAY 3.400 sec
 PULSE WIDTH 10.4 usec
 TEMPERATURE 30.0 deg. C.
 NO. REPETITIONS 12
DECOUPLE H1
 HIGH POWER 44
 DECOUPLER GATED ON DURING ACQUISITION
 DECOUPLER GATED OFF DURING DELAY
 WALTZ16 MODULATED
DOUBLE PRECISION ACQUISITION
DATA PROCESSING
 LINE BROADENING 0.1 Hz
 FT SIZE 65536
TOTAL ACQUISITION TIME 1 minutes
```

```
SPECTRAL LINES   for  th=4.6
  rfl=  1419.6   rfp=     0.0
H3PO4 external
 nr      Hz        ppm   intensity
  1  17134.63  105.826     10.3
  2  16837.86  103.993      7.1
  3  16048.56   99.118      9.0
  4  15749.92   97.274      6.6
  5      0.00    0.000    110.5
```



1,2,2-trimethylpropyl methylthiophosphonofluoridate
(2 diastereomers I and II) CAS 97931-17-4

Nucleus :	$^{31}P\{^{1}H\}$	Temperature :	30 °C	I / II	I / II
Frequency :	161.9 MHz	Spectral width :	20429.0 Hz	P: 102.5/100.6 ppm	J(PF) : 1086.6/1088.1 Hz
Concentration :	ca. 34 mg/0.7 ml $CDCl_3$	Data point (FID) :	64 K		
Reference H_3PO_4 external.	Res. : 1.2 Hz (104.0 ppm)	Pulse angle :	10.4 µs (60°)		
Instrument :	Varian VXR 400S	Number of pulses :	12		
		Repetition time :	5.0 s		
		Line broadening :	0.1 Hz		
		Data points (spec) :	64 K		