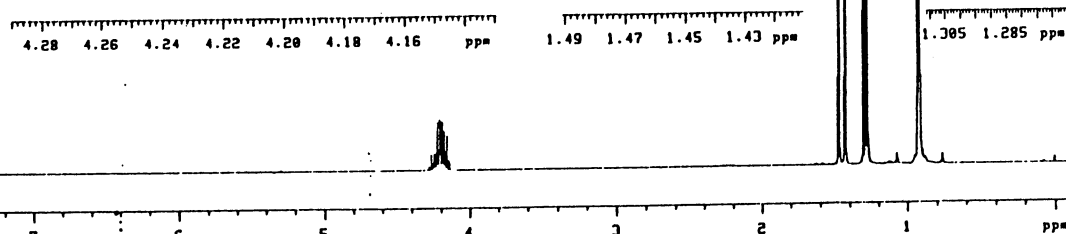
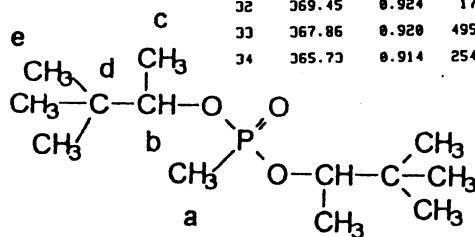


1H-NMR h1109a2  
 ca 40mg bis(1,2,2-trimethylpropyl)  
 methylphosphonate in ca 0.7ml CDCl3  
 214195126.006 jrn.342;133/200  
 OBSERVE H1  
 FREQUENCY 399.958 MHz  
 SPECTRAL WIDTH 6499.8 Hz  
 ACQUISITION TIME 5.041 sec  
 RELAXATION DELAY 3.000 sec  
 PULSE WIDTH 16.4 usec  
 TEMPERATURE 30.0 deg. C.  
 NO. REPETITIONS 32  
 DOUBLE PRECISION ACQUISITION  
 DATA PROCESSING  
 FT SIZE 262144  
 TOTAL ACQUISITION TIME 4 minutes

SPECTRAL LINES for th=3.1				nr	Hz	ppm	intensity
rfl=	815.0	r/p=	0.0	24	514.30	1.286	20.5
TMS internal				25	514.00	1.285	18.1
nr	Hz	ppm	intensity	26	509.24	1.273	57.5
1	2912.23	7.281	14.3	27	508.75	1.272	38.3
2	1690.23	4.226	5.1	28	507.95	1.270	18.5
3	1689.39	4.224	6.2	29	507.61	1.269	16.5
4	1683.88	4.210	6.5	30	374.26	0.936	3.9
5	1683.04	4.208	6.6	31	372.62	0.932	114.5
6	1682.05	4.206	5.5	32	369.45	0.924	17.9
7	1680.86	4.203	6.1	33	367.86	0.920	495.2
8	1677.54	4.194	6.3	34	365.73	0.914	254.2
9	1675.70	4.190	5.8				
10	1674.46	4.187	6.3				
11	1671.19	4.178	4.7				
12	1668.91	4.173	5.2				
13	1662.51	4.157	4.5				
14	592.06	1.480	11.5				
15	588.09	1.470	49.7				
16	585.71	1.464	31.4				
17	574.70	1.437	11.5				
18	570.73	1.427	49.7				
19	568.30	1.421	31.2				
20	522.63	1.307	28.0				
21	522.23	1.306	26.7				
22	515.69	1.289	70.5				
23	515.14	1.288	41.8				



Bis(1,2,2-trimethylpropyl) methylphosphonate

CAS 7040-58-6

Nucleus : <sup>1</sup>H

Frequency : 400.0 MHz

Concentration : ca. 40 mg/0.7 ml CDCl<sub>3</sub>

Reference TMS internal. Resolution : 0.2 Hz (TMS)

Instrument : Varian VXR 400S

Temperature : 30 °C

Spectral width : 6499.8 Hz

Data point (FID) : 64 K

Pulse angle : 16.4 μs (60°)

Number of pulses : 32

Repetition time : 8.0 s

Line broadening : not used

Data points (spec) : 256 K

three isomers

al: 1.45 ppm

all: 1.44 ppm

alII: 1.46 ppm

bl: 4.18 ppm

blI: 4.21 ppm

blII: 4.25 ppm

cl: 1.28 ppm

clI: 1.30 ppm

clII: 1.28 ppm

dl: 0.92 ppm

dII: 0.92 ppm

dIII: 0.93 ppm

J(aP) I : 17.5 Hz

J(aP) II : 17.5 Hz

J(aP) III : 17.5 Hz