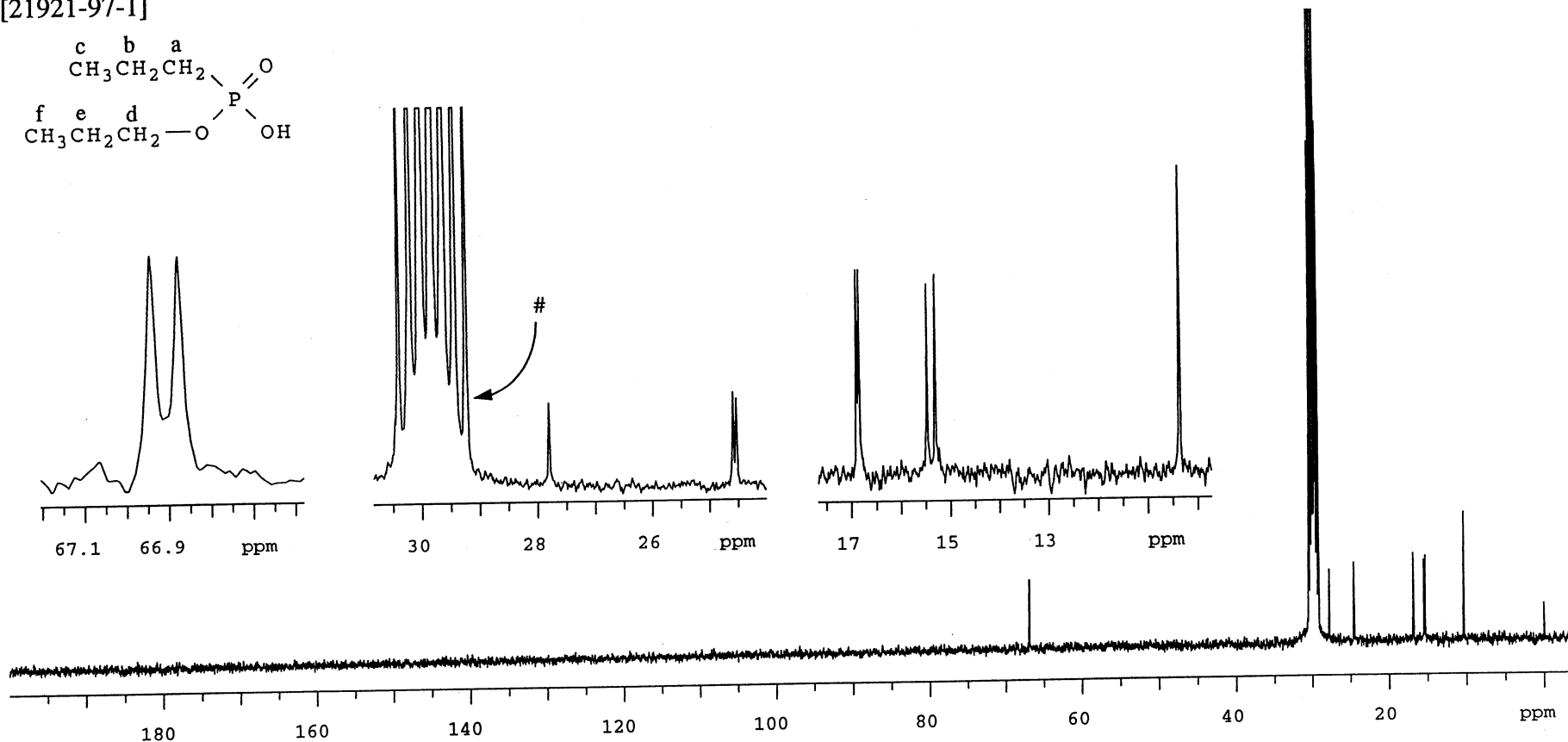
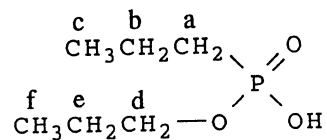


<sup>13</sup>C{<sup>1</sup>H} NMR

Propyl propylphosphonate

[21921-97-1]



Solvent: (CD<sub>3</sub>)<sub>2</sub>CO  
Concentration: 5.0 µl/ 0.8 ml  
Reference substance: TMS  
Sample temperature: 30.0 °C  
Resonance frequency: 100.623 MHz  
Spectral width: 23809.5 Hz  
Data points (FID; spec.): 64 k; 128 k

Flip angle; Pulse width: 45 °; 3.2 µs  
No. of scans; Rep. time: 2074; 3.5 s  
Weighting; Line broad.: exp.; 1.0 Hz  
Spectral resolution: 1.0 Hz (TMS)  
Instrument: Bruker AMX-400  
Source reference: 980609-4686  
Signature: *Markku Mesilaakso*  
Markku Mesilaakso

nuc.	δ [ppm]	J [Hz]
a	28.51	142.1 (P)
b	16.87	5.1 (P)
c	15.39	16.5 (P)
d	66.91	6.6 (P)
e	24.56	6.2 (P)
f	10.37	

# The solvent resonance overlaps the left line of the doublet; confirmed with DEPT-135

5-3-117

OPCW Code:05-3-0117(p1/1)