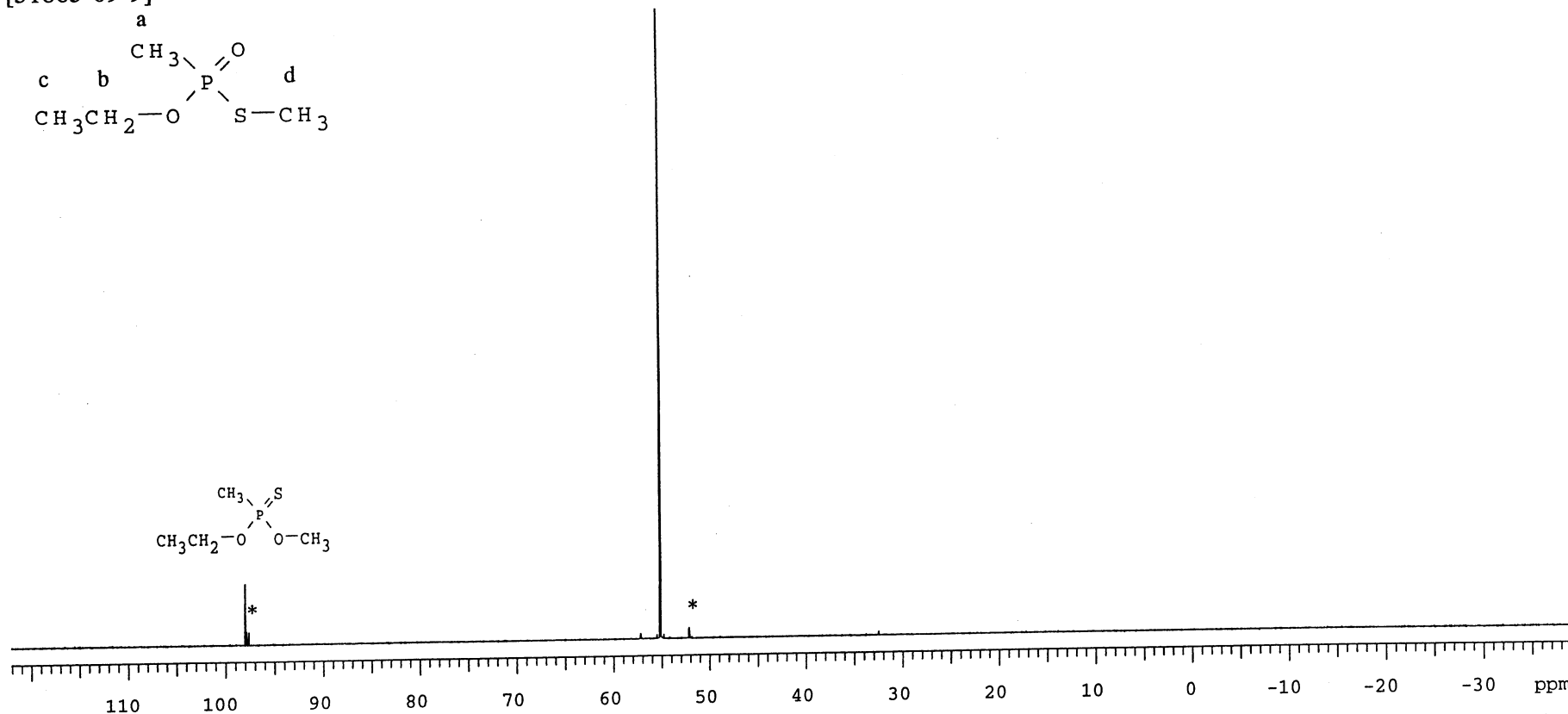
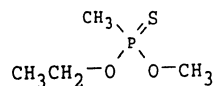
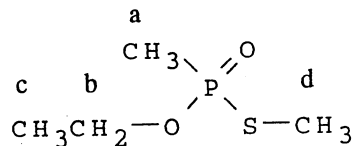


$^{31}\text{P}\{^1\text{H}\}$  NMR

# O-Ethyl S-methyl methylphosphonothiolate

[51865-09-9]



Solvent:  $\text{CDCl}_3$   
Concentration: 15  $\mu\text{l}$ / 0.8 ml  
Reference substance: ext. 85%  $\text{H}_3\text{PO}_4$   
Sample temperature: 29.0  $^\circ\text{C}$   
Resonance frequency: 161.982 MHz  
Spectral width: 26315.8 Hz  
Data points (FID; spec.): 64 k; 32 k

Flip angle; Pulse width: 27  $^\circ$ ; 4.6  $\mu\text{s}$   
No. of scans; Rep. time: 64; 7.2 s  
Weighting; Line broad.: exp.; 0.5 Hz  
Spectral resolution: 1.2 Hz (P)  
Instrument: Bruker AMX-400  
Source reference: 950704-2594  
Signature: *Markku Mesilaakso*  
Markku Mesilaakso

nuc.  $\delta$  [ppm]  
P 55.15

Contains O-ethyl O-methyl methylphosphonothionate as the main impurity

5 - 3 - 1 0 9

OPCW Code:05-3-0109(p1/1)