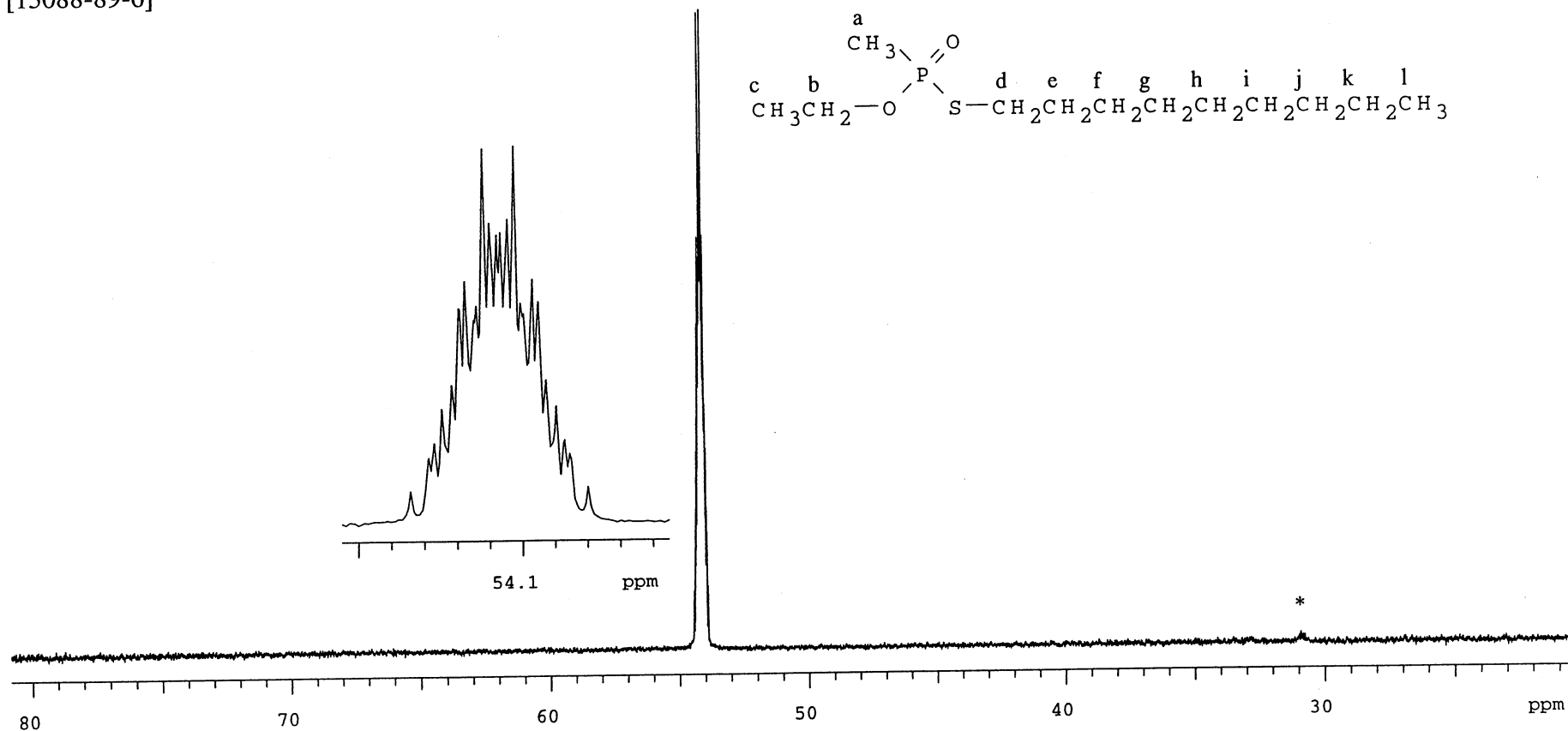
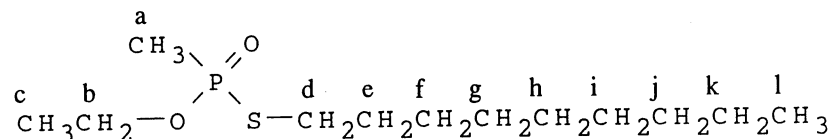


³¹P NMR

O-Ethyl S-nonyl methylphosphonothiolate
[13088-89-6]



Solvent: CDCl₃
Concentration: 28.2 mg/ 1.0 ml
Reference substance: ext. P(OH)₄ClO₄
Sample temperature: 29.0 °C
Resonance frequency: 161.987 MHz
Spectral width: 9803.9 Hz
Data points (FID; spec.): 64 k; 32 k

Flip angle; Pulse width: 45 °; 4.6 μs
No. of scans; Rep. time: 1024; 5.3 s
Weighting; Line broad.: exp.; 1.0 Hz
Spectral resolution: 1.5 Hz (P)
Instrument: Bruker AMX-400
Source reference: 930706-741
Signature: *Markku Mesilaakso*
Markku Mesilaakso

nuc. δ [ppm]
P 54.17 For couplings see the ¹H spectrum.

δ(P(OH)₄ClO₄) = 0.66 vs. δ(H₃PO₄) = 0.00

5 - 3 - 1 5 0

OPCW Code:05-3-0150(p1/1)