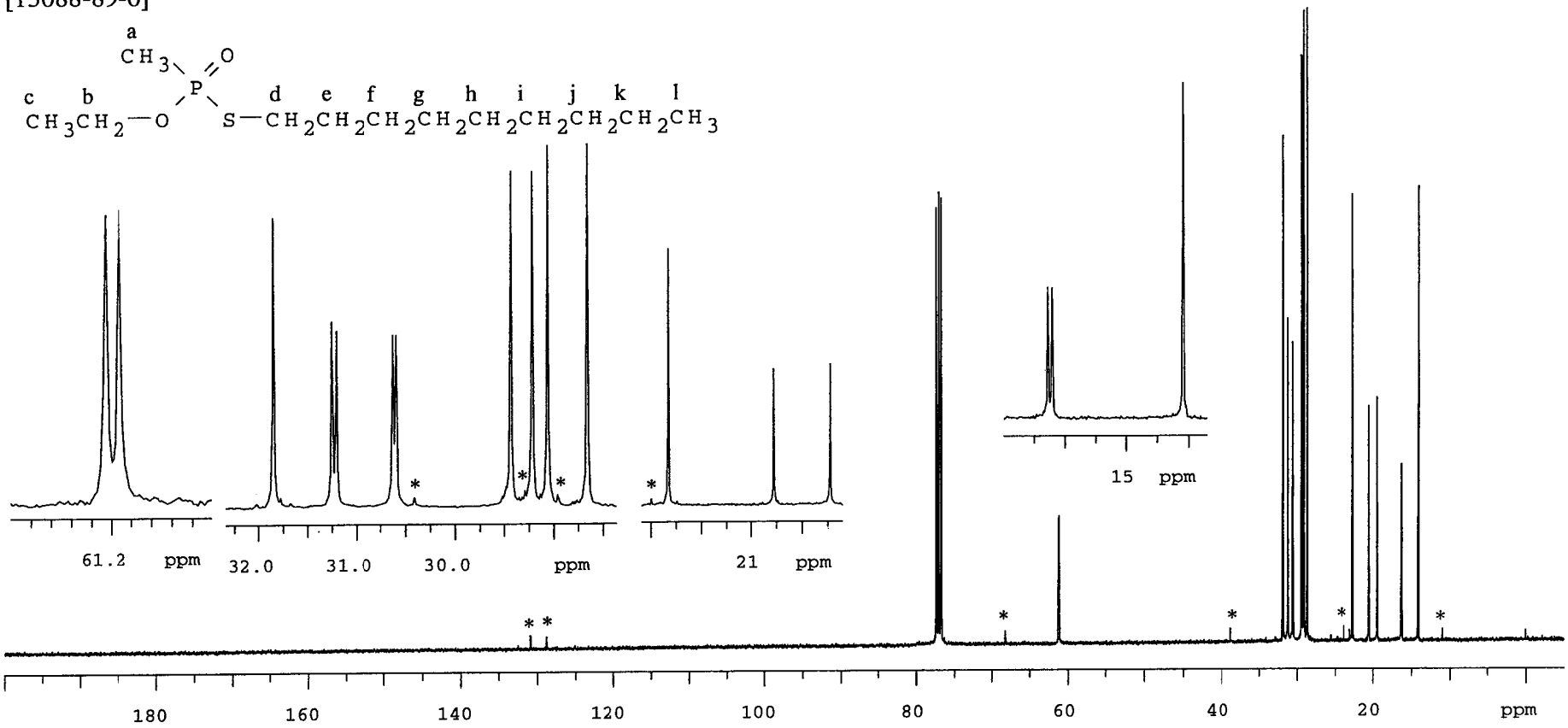
$^{13}C\{^{1}H\}$ NMR

O-Ethyl S-nonyl methylphosphonothiolate

[13088-89-6]



Solvent:	$CDCl_3$	Flip angle; Pulse width:	45 °; 6.6 µs	nuc.	δ [ppm]	J [Hz]	nuc.	δ [ppm]
Concentration:	28.2 mg/ 1.0 ml	No. of scans; Rep. time:	10240; 3.7 s	a	20.0	110.7 (P)	l	14.09
Reference substance:	TMS	Weighting; Line broad.:	exp.; 1.0 Hz	b	61.20	6.9 (P)		
Sample temperature:	30.0 °C	Spectral resolution:	1.6 Hz (77.0)	c	16.25	7.3 (P)		
Resonance frequency:	100.624 MHz	Instrument:	Bruker AMX-400	d	30.61	3.3 (P)		
Spectral width:	26315.8 Hz	Source reference:	991017-5333	e	31.23	4.7 (P)		
Data points (FID; spec.):	64 k; 64 k	Signature:	Markku Mesilaakso	f - k	22.65; 28.66; 29.06; 29.22; 29.44; 31.85			

Markku Mesilaakso

OPCW Code: 05-3-0148:r (p1/1)