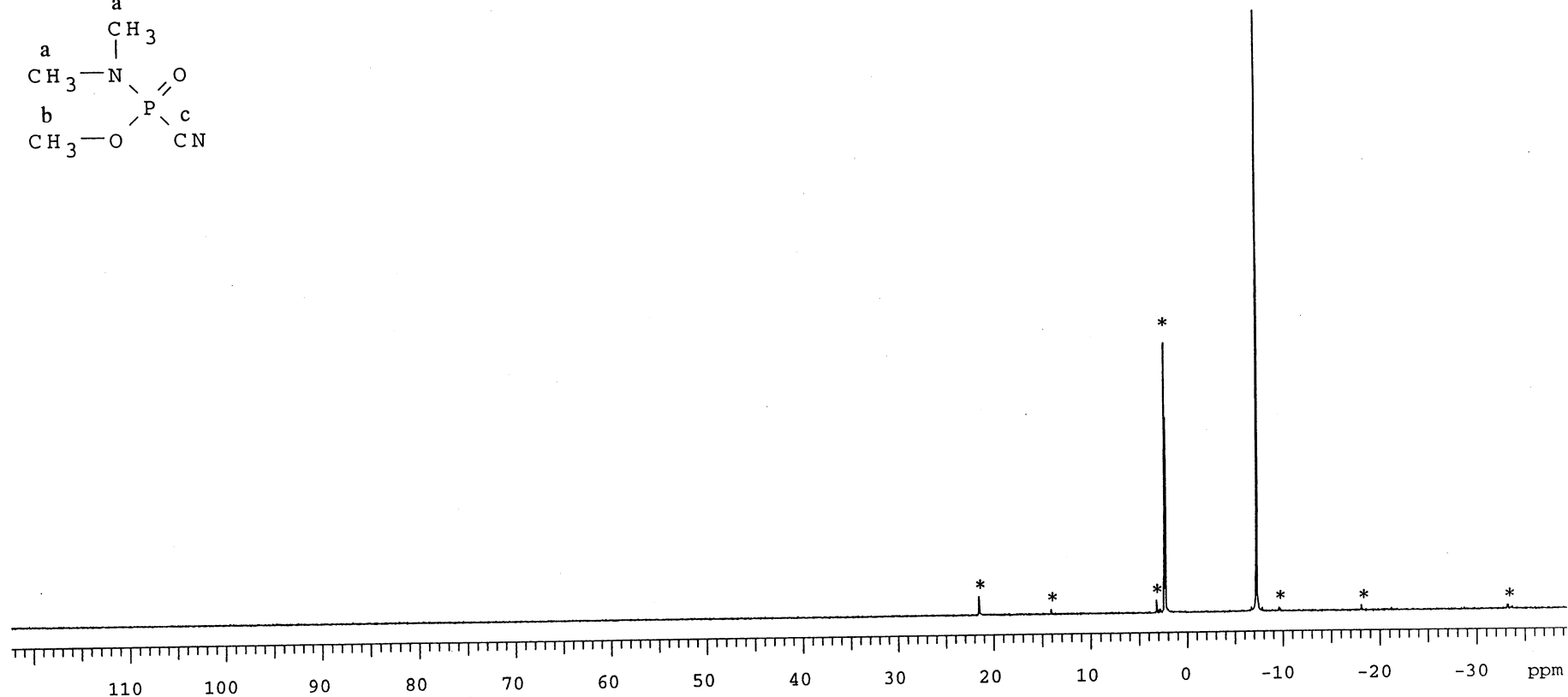
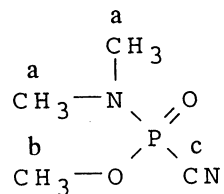


$^{31}\text{P}\{^1\text{H}\}$  NMR

**Methyl N,N-dimethylphosphoramidocyanidate**  
[63815-56-5]



Solvent:  $\text{CDCl}_3$   
Concentration: 10  $\mu\text{l}$ / 0.9 ml  
Reference substance: ext.  $\text{P}(\text{OH})_4\text{ClO}_4$   
Sample temperature: 26.0  $^\circ\text{C}$   
Resonance frequency: 161.982 MHz  
Spectral width: 26315.8 Hz  
Data points (FID; spec.): 64 k; 64 k

Flip angle; Pulse width: 45  $^\circ$ ; 4.5  $\mu\text{s}$   
No. of scans; Rep. time: 256; 5.2 s  
Weighting; Line broad.: exp.; 2.0 Hz  
Spectral resolution: 3.4 Hz (P)  
Instrument: Bruker AMX-400  
Source reference: 941107-1934b  
Signature: *Markku Mesilaakso*  
Markku Mesilaakso

nuc.  $\delta$  [ppm]  
P -7.26

$\delta(\text{P}(\text{OH})_4\text{ClO}_4) = 0.66$  vs.  $\delta(\text{H}_3\text{PO}_4) = 0.00$

OPCW Code:05-3-0080(p/1/1)