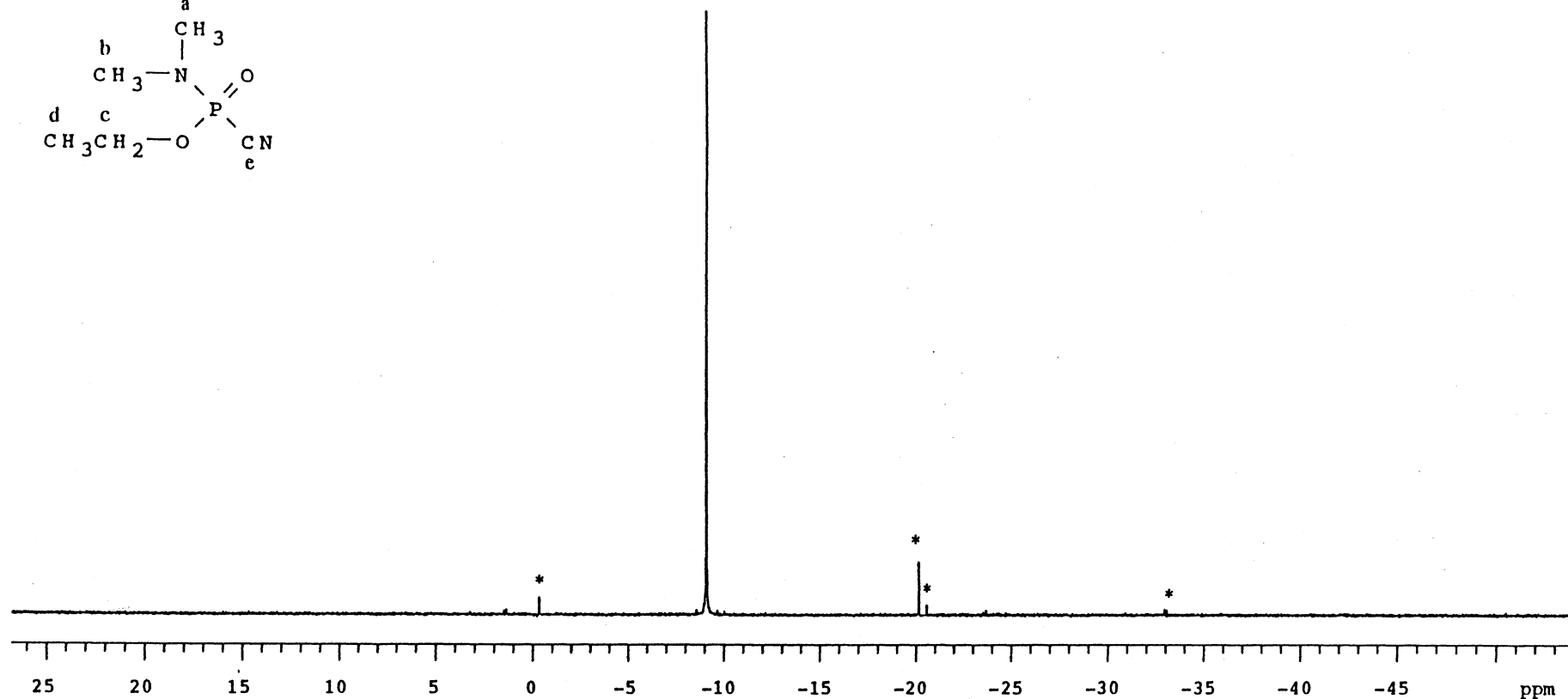
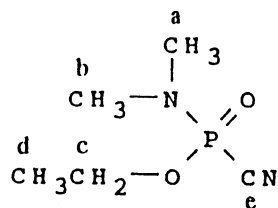


5-3-43

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

## Ethyl N,N-dimethylphosphoramidocyanidate (Tabun)

77-81-6



Solvent:	$\text{CDCl}_3$	Flip angle; Pulse width:	$45^\circ$ ; $4.6 \mu\text{s}$
Concentration:	16.4 mg/1.1 ml	No. of scans; Rep. time:	64; 18.5 s
Reference substance:	ext. $\text{P}(\text{OH})_4\text{ClO}_4$	Weighting; Line broad.:	exp.; 1.0 Hz
Sample temperature:	$29.5^\circ\text{C}$	Spectral resolution:	3.0 Hz (P)
Resonance frequency:	161.975 MHz	Instrument:	Bruker AMX-400
Spectral width:	13157.5 Hz	Source reference:	930209-427
Data points (FID; spec.):	64 k; 64 k		

nuc.	$\delta$ [ppm]
P	-9.10

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

OPCW Code:5-3-43 (p1/1)