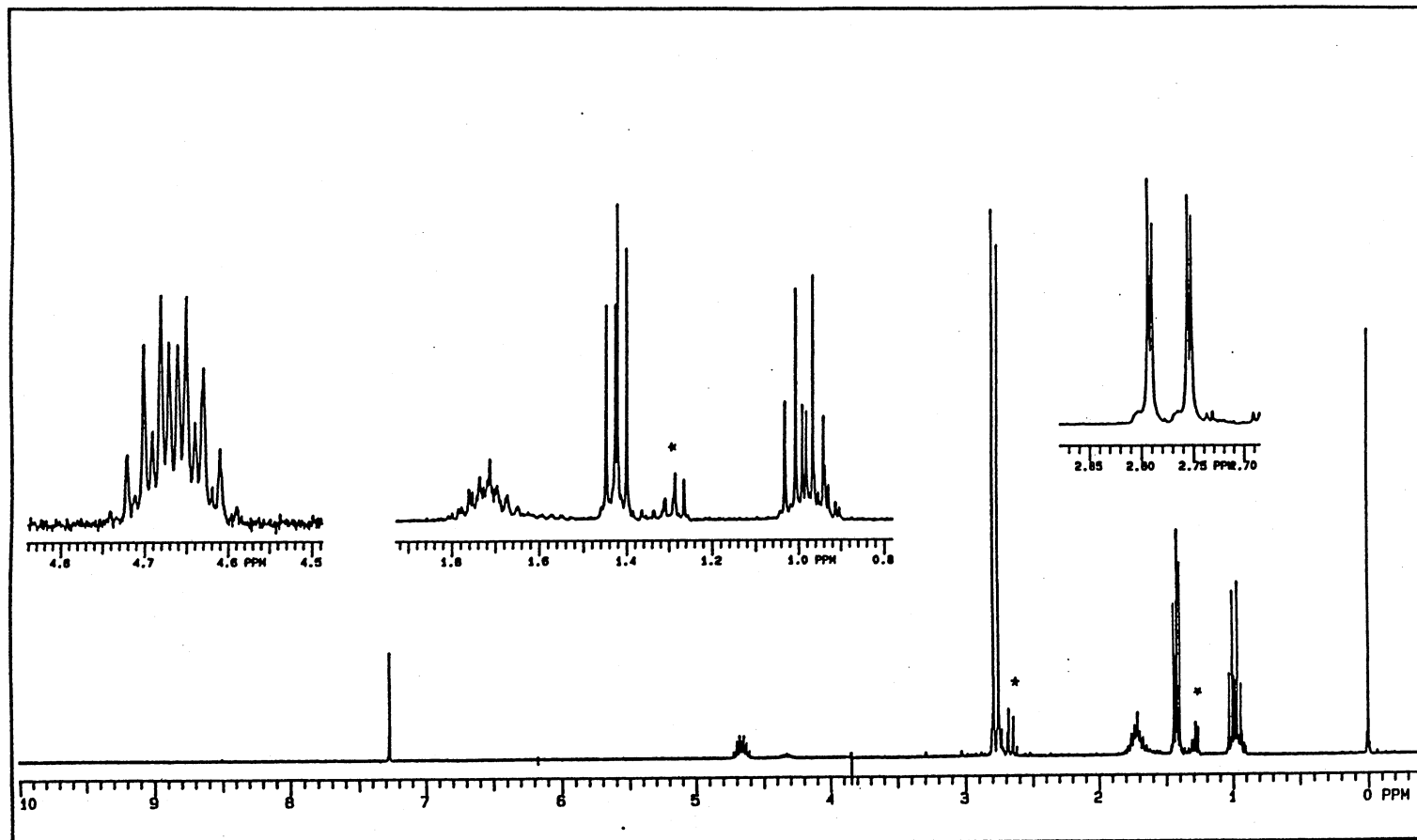
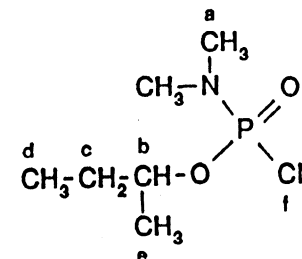


## sec-Butyl N,N-dimethylphosphoramidocyanidate

[       ]

<sup>1</sup>H-NMR

nuc.      δ [ppm]

a	2.77, 2.77
b	4.66
c	1.72
d	0.96, 1.00
e	1.41, 1.43

J(a,P) 11.3, 11.3 Hz

J(b,e) 6.2, 6.2 Hz

J(c,d) 7.3, 7.5 Hz

mixture of diastereomers

Res. freq. 299.943 MHz  
 Solvent: CDCl<sub>3</sub>  
 Temperature: 24°C  
 Concentration: approx. 100mg/ml  
 Reference: TMS (internal)

Spectral width: 4000 Hz  
 Data points (FID): 28992  
 Data points (spec.): 16K  
 Pulse width: 7 μs (24°)  
 Number of scans: 33

Rep.time.: 3.62 s  
 Line broad.: not used  
 Resolution: 0.40 Hz (TMS)  
 Instrument: Varian VXR-300  
 Filename: