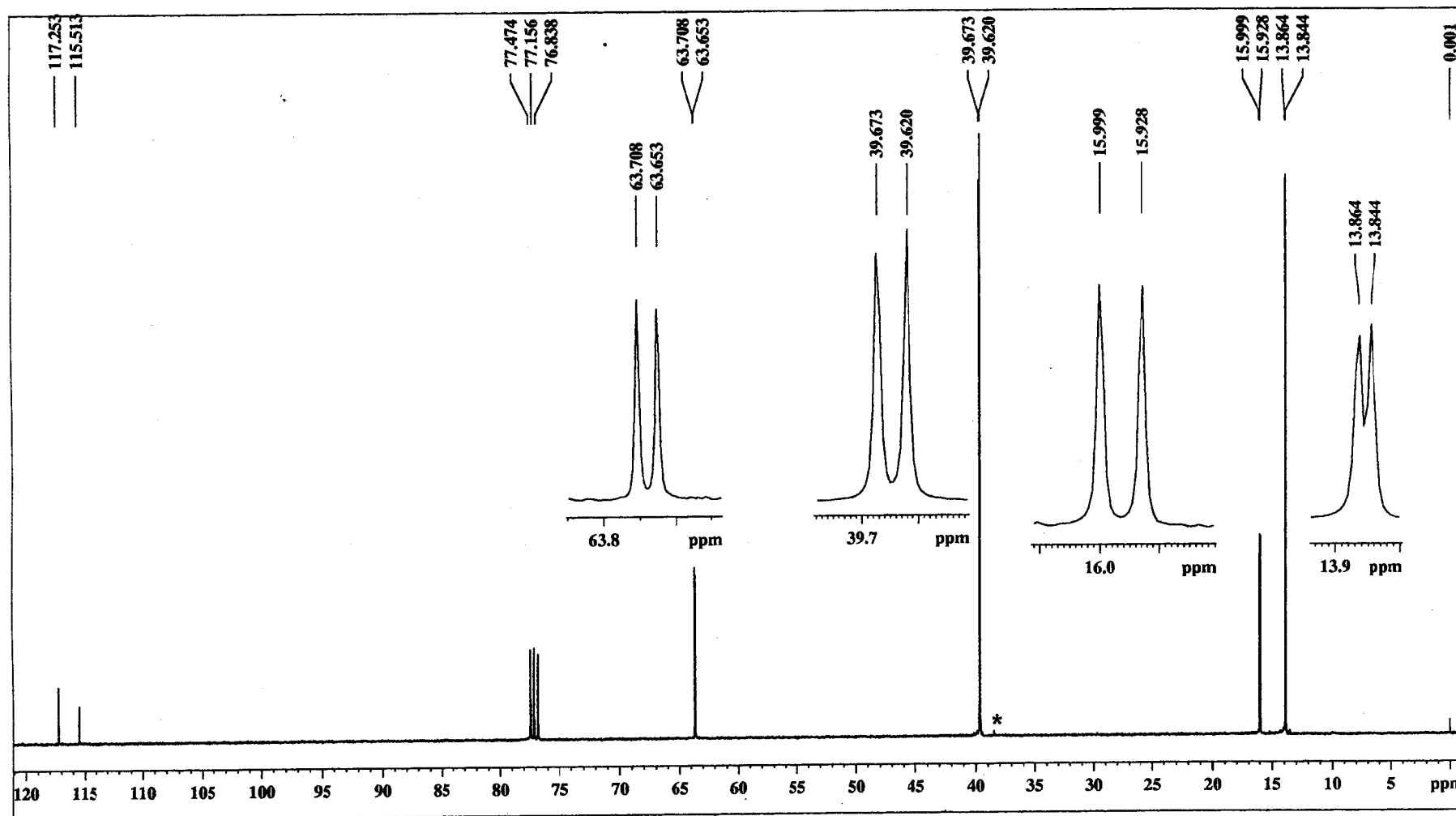
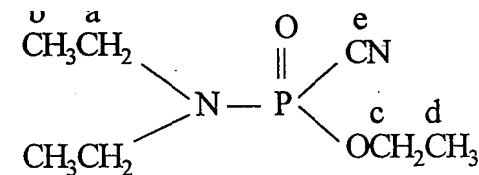


# ETHYL N,N -DIETHYLPHOSPHORAMIDOCYANIDATE

<sup>13</sup>C{<sup>1</sup>H}-NMR



nuc.	δ [ppm]
a	39.65
b	13.85
c	63.68
d	15.96
e	116.38

J <sub>aP</sub>	5.33 Hz
J <sub>bP</sub>	2.01 Hz
J <sub>cP</sub>	5.53 Hz
J <sub>dP</sub>	7.14 Hz
J <sub>eP</sub>	175.08 Hz

\*impurity

RES. FREQ. : 100.62 MHz  
 SOLVENT : CDCl<sub>3</sub>  
 TEMPERATURE : 22°C  
 CONCENTRATION : 100 mg/ml  
 REFERENCE : TMS [INT.]

SPECTRAL WIDTH : 20080.32 Hz  
 DATA POINTS [FID] : 32 K  
 DATA POINTS [SPEC.] : 16 K  
 PULSE WIDTH : 6.00 μs [90°]  
 NUMBER OF SCANS : 4000

REP. TIME : 2.00 s  
 LINE BROAD : not used  
 RESOLUTION : 1.2 Hz [TMS]  
 INSTRUMENT : BRUKER DPX-400