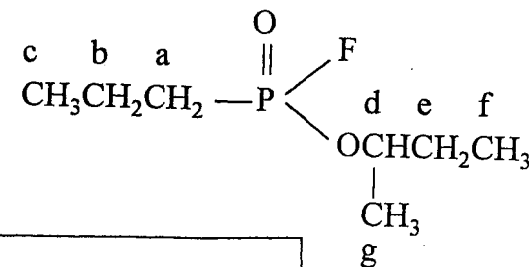
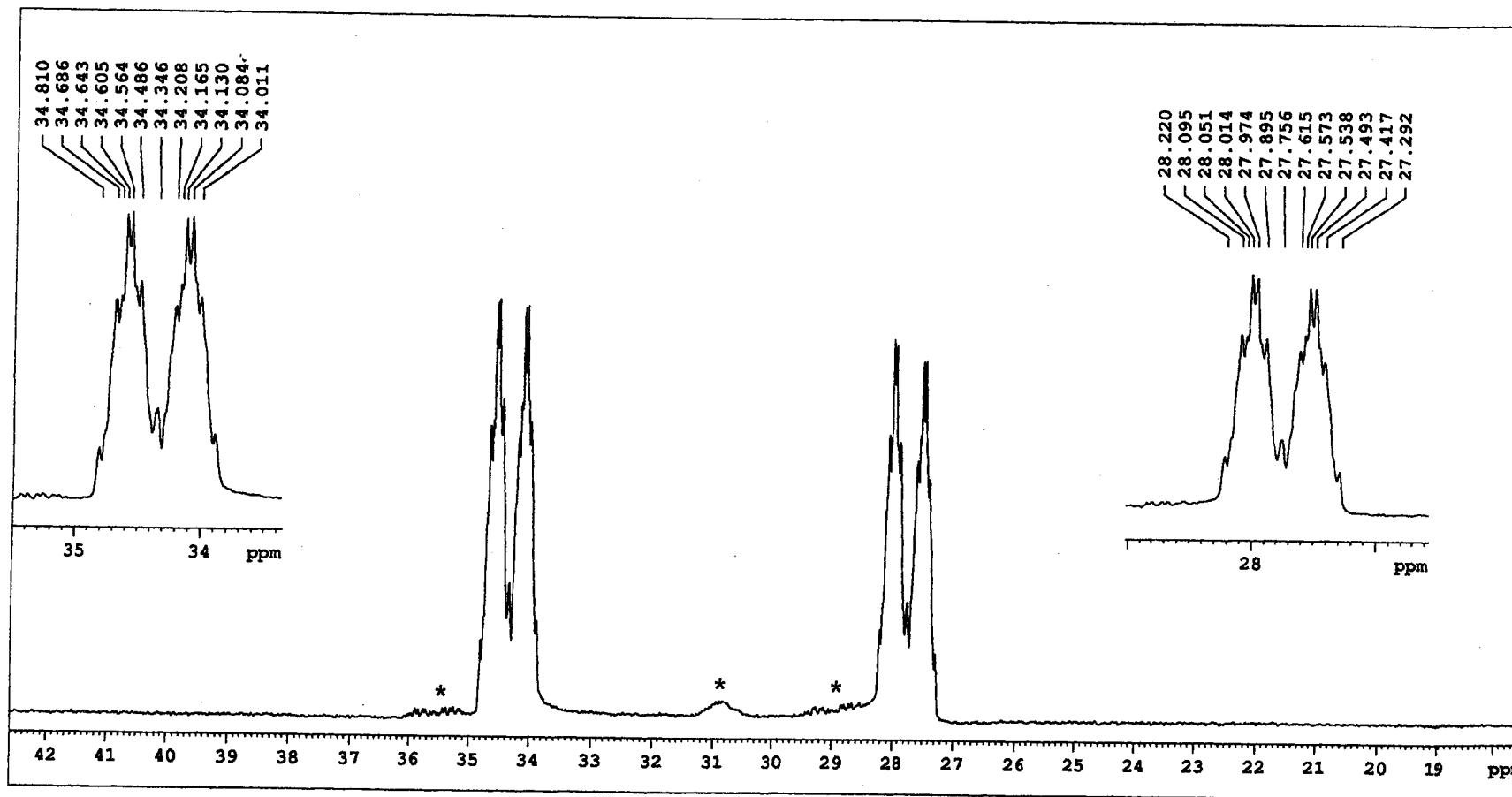


# SEC-BUTYL PROPYLPHOSPHONOFLUORIDATE



<sup>31</sup>P-NMR



nuc. δ [ppm]  
P 30.81,  
31.28  
J<sub>[P-F]</sub> 1067.9 Hz,  
1067.5 Hz  
Mixture of diastereomers

\* impurities

RES. FREQ. : 161.975 MHz  
SOLVENT : CDCl<sub>3</sub>  
TEMPERATURE : 22°C  
CONCENTRATION : 40 mg/ml  
REFERENCE : H<sub>3</sub>PO<sub>4</sub> [Ext.]

SPECTRAL WIDTH : 50251.00 Hz  
DATA POINTS [FID] : 32 K  
DATA POINTS [SPEC.] : 16 K  
PULSE WIDTH : 6.00 μs [90°]  
NUMBER OF SCANS : 24

REP. TIME : 2.00 s  
LINE BROAD : 3.00 Hz  
RESOLUTION : 6.14 Hz [P]  
INSTRUMENT : BRUKER DPX-400

OPCW Code:09-3-0037(page 1/1)