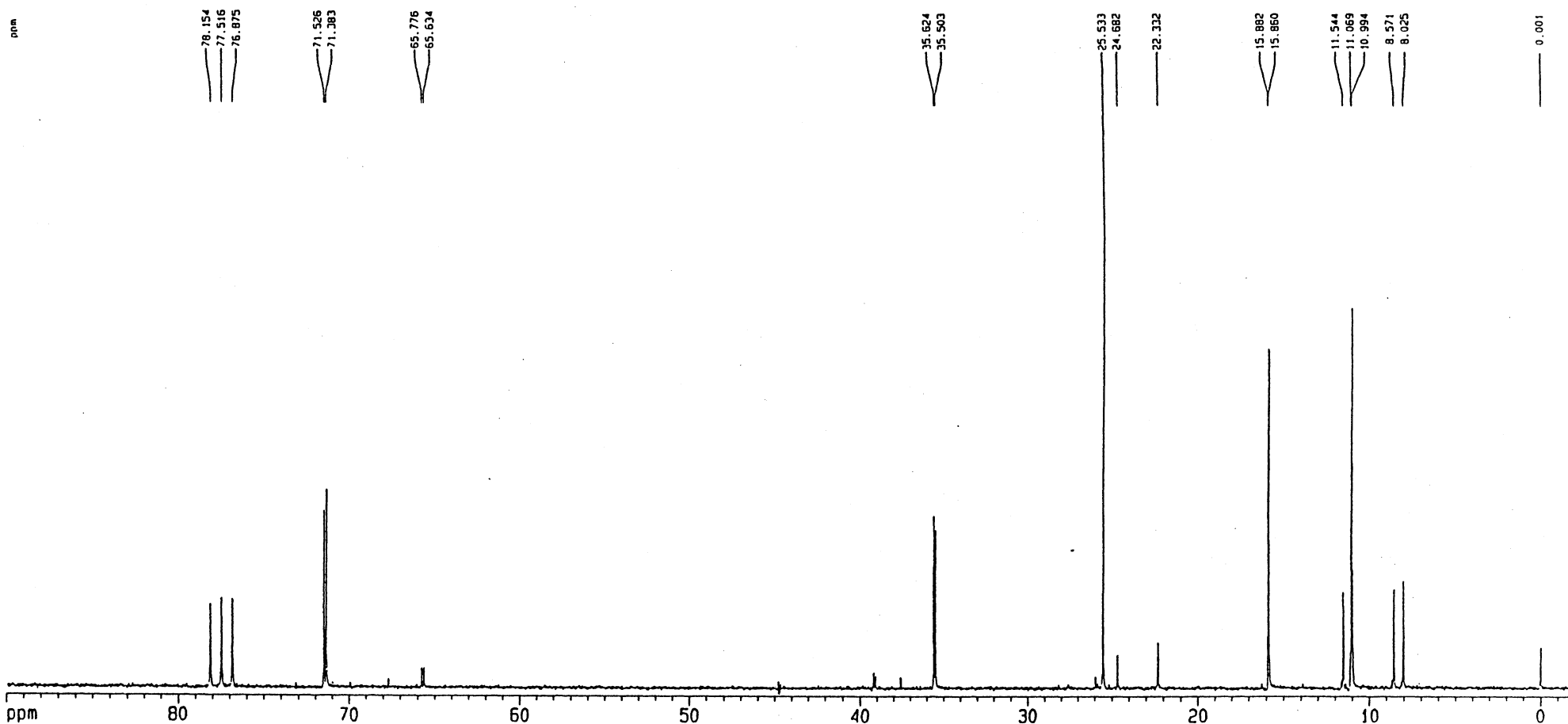


1-3-28



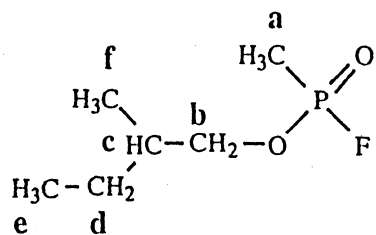
### 2-METHYLBUTYL METHYLPHOSPHONOFUORIDATE

CAS number :  
 MF :  $C_6H_{14}FO_2P$   
 Solvent/Lock :  $CDCl_3/CDCl_3$   
 Nucleus :  $^{13}C$   
 Apparatus : Bruker WP200SY  
 Frequency : 50.3 MHz  
 Temperature : 23°C  
 Concentration :  $\approx 40$  mg/ml

Reference :  
 Spectral width : 7692.31 Hz  
 Pulse Width :  $5 \mu s$  (90°)  
 Repetition Time : 4 s  
 Data points : FID = 16K, SPC = 8K  
 Line Broadning : No  
 Resolution (TMS) : 1.8 Hz

TMS/internal  
 7692.31 Hz  
 $5 \mu s$  (90°)  
 4 s  
 FID = 16K, SPC = 8K  
 No  
 1.8 Hz

a :  $\delta = 9.78$  ppm ;  $J_{P-a} = 150$  Hz ;  $J_{F-a} = 27.9$  Hz  
 b :  $\delta = 71.45$  ppm ;  $J_{P-b} = 7.8$  Hz  
 c :  $\delta = 35.56$  ppm ;  $J_{P-c} = 5.9$  Hz  
 d :  $\delta = 25.53$  ppm  
 e :  $\delta = 11.07$  ppm  
 f :  $\delta = 15.88$  ppm



OPCW Code:1-3-28 (p1/1)