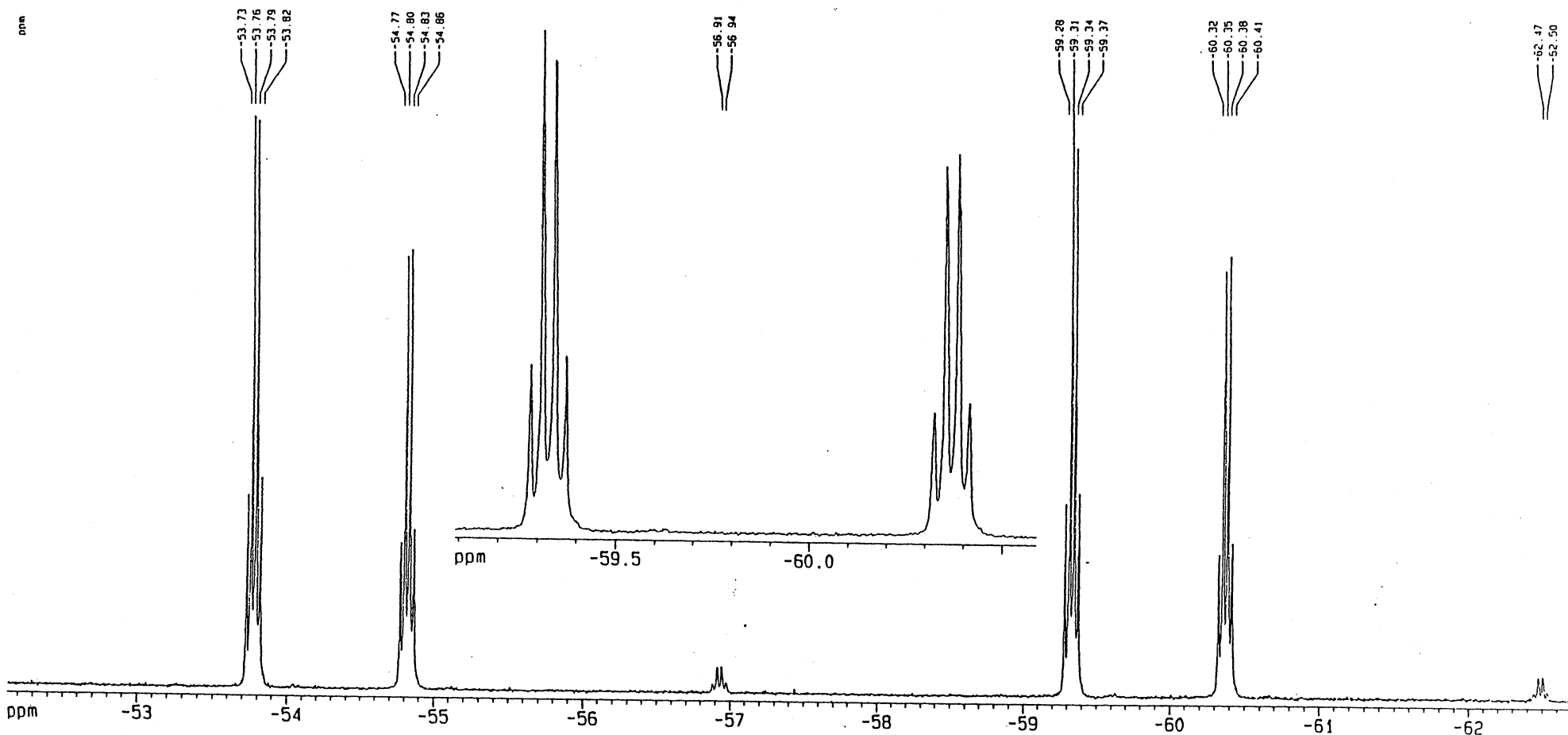


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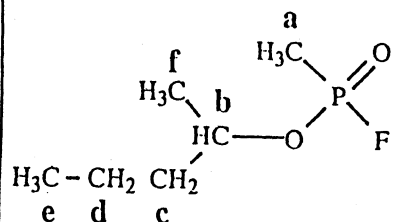


### 1-METHYLBUTYL METHYLPHOSPHONOFUORIDATE

CAS number : 761-93-3  
 MF : C<sub>6</sub>H<sub>14</sub>FO<sub>2</sub>P  
 Solvent/Lock : CDCl<sub>3</sub>/CDCl<sub>3</sub>  
 Nucleus : <sup>19</sup>F  
 Apparatus : Bruker WP200SY  
 Frequency : 188.3 MHz  
 Temperature : 23°C  
 Concentration : ≈ 40 mg/ml

Reference : CFC<sub>13</sub>/internal  
 Spectral width : 2000.0 Hz  
 Pulse Width : 5 μs (90°)  
 Repetition Time : 2.1 s  
 Data points : FID = 8K, SPC = 4K  
 Line Broadning : No  
 Resolution : 0.73 Hz

2 Diastereoisomers  
 $\delta_1 = -56.55$  ppm ; J<sub>P-F</sub> = .1045.9 Hz ;  
 J<sub>F-a</sub> = 17.1 Hz  
 $\delta_2 = -57.59$  ppm ; J<sub>P-F</sub> = .1044.9 Hz ;  
 J<sub>F-a</sub> = 17.1 Hz



OPCW Code:1-3-44 (p1/1)