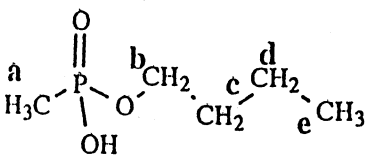


### BUTYL METHYLPHOSPHONATE



CAS number : 1832-55-9  
 MF : C<sub>5</sub>H<sub>13</sub>O<sub>3</sub>P  
 Solvent/Lock : DMSO d<sub>6</sub>/DMSO d<sub>6</sub>  
 Nucleus : <sup>1</sup>H  
 Apparatus : Bruker AMX360  
 Frequency : 360.13 MHz  
 Temperature : 23°C  
 Concentration : ≈ 40 mg/ml

Reference : TMS internal  
 Spectral width : 3876 Hz  
 Pulse Width : 9.5 μs (90°)  
 Repetition Time : 4 s  
 Data points : FID = 16K, SPC = 16K  
 Line Broadning : No  
 Peak Width 1/2 height : TMS 3.2 Hz

a : δ = 1.32 ppm ; J<sub>P-a</sub> = 17.0 Hz  
 b : δ = 3.85 ppm ; J<sub>P-b</sub> = 6.9 Hz  
 c : δ = 1.55 ppm ; J<sub>b-c</sub> = 6.6 Hz  
 d : δ = 1.35 ppm ; J<sub>c-d</sub> = 7.9 Hz  
 e : δ = 0.89 ppm ; J<sub>d-e</sub> = 7.3 Hz  
 shift of OH proton depends on concentration and is thus not given.