



### BENZYL(2-METHOXYETHYL) METHYLPHOSPHONATE

CAS number : unknown  
 MF :  $C_{11}H_{17}O_4P$   
 Solvent/Lock :  $CDCl_3/CDCl_3$   
 Nucleus :  $^1H$   
 Apparatus : Bruker AMX360  
 Frequency : 360.13 MHz  
 Temperature : 23°C  
 Concentration :  $\approx 40$  mg/ml

Reference : TMS/internal  
 Spectral width : 2960 Hz  
 Pulse Width : 9.5  $\mu s$  (90°)  
 Repetition Time : 4 s  
 Data points : FID = 16K, SPC = 16K  
 Line Broadning : No  
 Peak Width 1/2 height : TMS 0.6 Hz

a :  $\delta = 1.50$  ppm ;  $J_{p-a} = 17.7$  Hz  
 b :  $\delta = 5.09$  &  $5.05$  ppm ;  $J_{p-b} = 8.7$  &  $8.4$  Hz ;  
 $J_{b-b} = 11.8$  Hz  
 d, e, f :  $\delta = 7.20 - 7.40$  ppm  
 g :  $\delta = 4.17$  &  $4.07$  ppm ;  $J_{p-g} = 8.5$  &  $8.2$  Hz ;  
 $J_{g-g} = 11.5$  Hz ;  $J_{g-h} = 4.2 + 5.1$  &  $4.2 + 4.9$  Hz  
 h :  $\delta = 3.54$  ppm  
 i :  $\delta = 3.36$  ppm

