



**BIS(2-METHYLPROPYL) METHYLPHOSPHONOTHIONATE**

CAS number :  
 MF :  $C_9H_{21}O_2PS$   
 Solvent/Lock :  $CDCl_3/CDCl_3$   
 Nucleus :  $^{13}C$   
 Apparatus : Bruker AMX 360  
 Frequency : 90.56 MHz  
 Temperature : 23°C  
 Concentration :  $\approx 40$  mg/ml

Reference :  
 Spectral width : TMS internal  
 Pulse Width : 10870 Hz  
 Repetition Time : 4  $\mu s$  (90°)  
 Data points : 1 s  
 Line Broadening : FID = 32K, SPC = 32K  
 Peak Width 1/2 height : 0.5 Hz  
 peak 20.66 ppm 1.1 Hz

a :  $\delta = 21.31$  ppm ;  $J_{P-a} = 116.1$  Hz  
 b :  $\delta = 72.36$  ppm ;  $J_{P-b} = 7.3$  Hz  
 c :  $\delta = 29.03$  ppm ;  $J_{P-c} = 7.3$  Hz  
 d :  $\delta = 18.81$  ppm ;  $J_{P-d} = 1.7$  Hz

