



## 2-METHYLPROPYL S-2-(DIISOPROPYLAMINOETHYL) METHYLPHOSPHONOTHIOATE

CAS number :  
 MF :  $C_{13}H_{30}NO_2PS$   
 Solvent/Lock :  $CDCl_3/CDCl_3$   
 Nucleus :  $^1H$   
 Apparatus : Bruker AMX 360  
 Frequency : 360.13 MHz  
 Temperature : 23°C  
 Concentration :  $\approx 40$  mg/ml

Reference :  
 Spectral width : 2960 Hz  
 Pulse Width :  $9.5 \mu s$  ( $90^\circ$ )  
 Repetition Time : 4 s  
 Data points : FID = 16K, SPC = 16K  
 Line Broadening : No  
 Peak Width 1/2 height : TMS 0.5 Hz

a :  $\delta = 1.79$  ppm ;  $J_{P-a} = 15.6$  Hz  
 b :  $\delta = 3.89$  &  $3.76$  ppm ;  $J_{P-b} = 7.3$  &  $7.7$  Hz ;  $J_{b-b} = 9.7$  Hz  
 c :  $\delta = 1.96$  ppm ;  $J_{b-c} = 6.5$  &  $6.6$  Hz  
 d :  $\delta = 0.95$  &  $0.95$  ppm ;  $J_{c-d} = 6.6$  Hz  
 e :  $\delta = 2.85$  &  $2.79$  ppm ;  $J_{P-e} = 8.4$  Hz ;  $J_{e-e} = 12.2$  Hz  
 f :  $\delta = 2.70$  ppm ;  $J_{e-f} = 7.5$  Hz  
 g :  $\delta = 3.01$  ppm ;  $J_{g-h} = 6.6$  Hz  
 h :  $\delta = 1.02$  ppm

