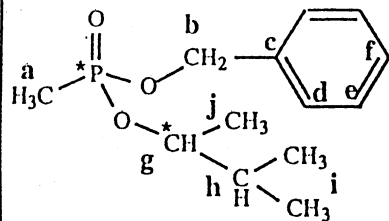


BENZYL(1,2-DIMETHYLPROPYL)METHYLPHOSPHONATE (diastereo isomers)



CAS number : unknown
 MF : $C_9H_{13}O_3P$
 Solvent/Lock : $CDCl_3/CDCl_3$
 Nucleus : ^{13}C
 Apparatus : Bruker AMX360
 Frequency : 90.56 MHz
 Temperature : 23°C
 Concentration : ≈ 40 mg/ml

Reference : TMS internal
 Spectral width : 30 Hz
 Pulse Width : $4 \mu s$ (90°)
 Repetition Time : 1 s
 Data points : FID = 64K, SPC = 32K
 Line Broadening : 0.8 Hz
 Peak Width 1/2 height : peak 127.7 ppm 2.3Hz

a : $\delta = 11.86$ & 12.53 ppm ; $J_{p-a} = 145.7$ & 145.3 Hz
 b : $\delta = 66.74$ & 66.86 ppm ; $J_{p-b} = 5.9$ Hz
 c : $\delta = 136.56$ & 136.61 ppm ; $J_{p-c} = 6.4$ Hz
 d, e : $\delta = 128.53, 127.72$ ppm ;
 f : $\delta = 128.24$ ppm
 g : $\delta = 78.27$ & 78.22 ppm ; $J_{p-g} = 6.8$ Hz
 h : $\delta = 33.90$ & 33.87 ppm ; $J_{p-h} = 5.9$ & 5.5 Hz
 i : $\delta = 17.80 + 17.79$ & $17.76 + 17.55$ ppm ;
 j : $\delta = 18.55$ & 18.27 ppm ; $J_{p-j} = 1.4$ & 2.3 Hz