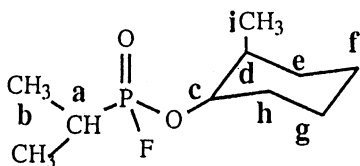


(2-METHYLCYCLOHEXYL) (1-METHYLETHYL)PHOSPHONOFUORIDATE (Dias.)



CAS number :
MF : $C_{10}H_{20}FO_2P$
Solvent/Lock : $CDCl_3/CDCl_3$
Nucleus : 1H
Apparatus : Bruker DPX 360
Frequency : 360.13 MHz
Temperature : 23°C
Concentration : ≈ 40 mg/ml

Reference :
Spectral width : TMS internal 3250 Hz
Pulse Width : 18 μs (90°)
Repetition Time : 4 s
Data points : FID = 16K, SPC = 16K
Line Broadening : No
Peak Width 1/2 height : TMS 0.6 Hz

TRANS DIASTEREOISOMERS (major component)
a a' : $\delta = 2.13$ & 2.10 ppm ;
 $J_{P-aa'} = 19.9$ Hz ; $J_{aa'-bb'} = 7.2$ Hz ; $J_{F-aa'} = 2.1$ & 1.7 Hz
b : $\delta = 1.27$ ppm ; $J_{P-b} = 19.7$ Hz ; $J_{F-b} = 0.8$ Hz
b' : $\delta = 1.25$ ppm ; $J_{P-b'} = 19.7$ Hz ; $J_{F-b'} = 3.6$ Hz
c c' : $\delta = 4.10$ - 4.27 ppm ; $J_{P-c} = 6.8$ & 8.5 Hz ;
d d', e e', f f', g g', h h' : $\delta = 2.2$ - 1.0 ppm ;
i i' : $\delta = 1.02$ & 1.01 ppm ; $J_{d-i} = 6.5$ & 6.4 Hz