



### (2-METHYLCYCLOHEXYL) PROPYLPHOSPHONOFUORIDATE (Dias.cis & trans)

CAS number :  
MF :  
Solvent/Lock :  
Nucleus :  
Apparatus :  
Frequency :  
Temperature :  
Concentration :

$C_{10}H_{20}FO_2P$   
CDCl<sub>3</sub>/CDCl<sub>3</sub>  
<sup>19</sup>F  
Bruker DPX 360  
338.86 MHz  
23°C  
≈ 40 mg/ml

Reference :  
Spectral width :  
Pulse Width :  
Repetition Time :  
Data points  
Line Broadening :  
Peak Width 1/2 height :

CFCl<sub>3</sub> internal  
29000 Hz  
15.5 μs (90°)  
2 s  
FID = 128K, SPC = 128K  
No  
peak -62.22 ppm 1.5 Hz

TRANS ISOMERS (83 %)  
δ = - 60.65 ppm ; J<sub>F-P</sub> = 1069.7 Hz ; J<sub>F-a</sub> # 3.7 Hz  
δ = - 63.28 ppm ; J<sub>F-P</sub> = 1068.5 Hz ; J<sub>F-a</sub> # 3.7 Hz  
CIS ISOMERS (14 %)  
δ = - 61.64 ppm ; J<sub>F-P</sub> = 1067.3 Hz ; J<sub>F-a</sub> = 4.2 Hz  
δ = - 63.28 ppm ; J<sub>F-P</sub> = 1068.4 Hz

