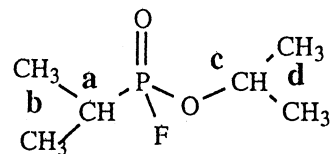


(1-METHYLETHYL) (1-METHYLETHYL)PHOSPHONOFUORIDATE



CAS number :	665-33-8	Reference interval :	CDCl ₃ at 77.26 ppm
MF :	C ₆ H ₁₄ FO ₂ P	Spectral width :	10100 Hz
Solvent/Lock :	CDCl ₃ /CDCl ₃	Pulse Width :	9 μs (90°)
Nucleus :	¹³ C	Repetition Time :	1 s
Apparatus :	Bruker DPX 360	Data points	FID = 32K, SPC = 32K
Frequency :	90.56 MHz	Line Broadning :	No
Temperature :	23°C	Peak Width 1/2 height :	peak 15.43 ppm 0.9 Hz
Concentration :	≈ 40 mg/ml		

a :	δ = 24.86 ppm ;	J _{P-a} = 145.0 Hz ;	J _{F-a} = 22.4 Hz
b :	δ = 15.58 ppm ;	J _{P-b} = 5.2 Hz	
	δ = 15.49 ppm ;	J _{P-b} = 5.0 Hz	
c :	δ = 72.22 ppm ;	J _{P-c} = 7.6 Hz	
d :	δ = 23.75 ppm ;	J _{P-d} = 3.2 Hz ;	
	δ = 23.65 ppm ;	J _{P-d} = 5.9 Hz ;	*J _{F-d} = 1.9 Hz

* confirmed by ¹³C spectrum on a 500MHz spectrometer