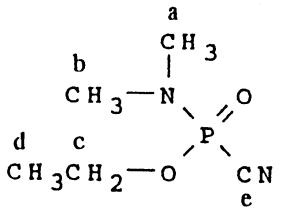
^{31}P NMR

Ethyl N,N-dimethylphosphoramidocyanidate (Tabun)

77-81-6



				nuc.	δ [ppm]	J [Hz]
Solvent:	$CDCl_3$	Flip angle; Pulse width:	45 °; 4.6 µs	P	-9.10	10.6 (a,b,c)
Concentration:	16.4 mg/1.1 ml	No. of scans; Rep. time:	256; 7.8 s			
Reference substance:	ext. $P(OH)_4ClO_4$	Weighting; Line broad.:	exp.; 0.5 Hz			
Sample temperature:	29.5 °C	Spectral resolution:	7.0 Hz (P)			
Resonance frequency:	161.975 MHz	Instrument:	Bruker AMX-400			
Spectral width:	5681.8 Hz	Source reference:	930209-428			
Data points (FID; spec.):	64 k; 32 k					

f = folded impurity resonance

$\delta(P(OH)_4ClO_4) = 0.66$ vs. $\delta(H_3PO_4) = 0.00$