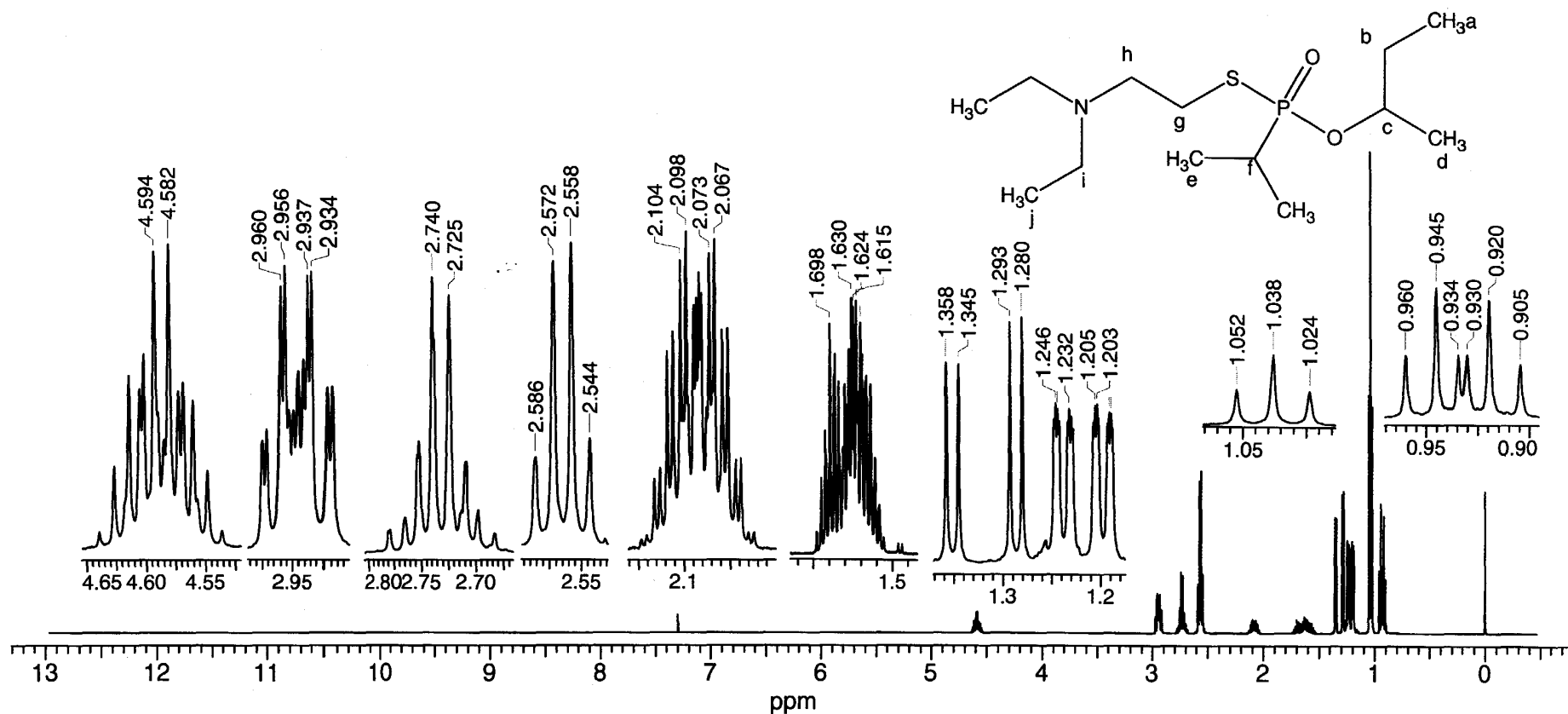


sec-Butyl S-2-diethylaminoethyl isopropylphosphonothiolate

<sup>1</sup>H NMR

7-3-684r



Res.freq: 499.83 MHz  
 Solvent: CDCl<sub>3</sub>  
 Temperature: 28°C  
 Concentration: 0.077 μl/μl  
 Reference: TMS [internal]  
 Spectral Width: 6712.5 Hz  
 Data points [Fid]: 56360  
 Data Points [Spectrum]: 64K

Pulse Width: 1.7 μs [24°]  
 Number of Scans: 16  
 Line Broadening: no  
 Rep.time: 4.2s  
 Resolution: 0.5 Hz (TMS)  
 Instrument: Varian INOVA 500

*Un Mic*

nuc δ[ppm]  
 a,a': 0.920, 0.945  
 b: 1.529-1.741  
 c: 4.536-4.639  
 d,d': 1.287, 1.352  
 e,e': 1.217, 1.219  
 f: 2.024-2.147  
 g: 2.919-2.975  
 h: 2.683-2.780  
 i: 2.565  
 j: 1.038

J[Hz]  
 J(a,b) = J(a',b) = 7.6  
 J(d,c) = 6.5, J(d',c) = 6.4  
 J(e,P) = J(e',P) = 20.3, J(e,f) = J(e',f) = 7.0  
 J(f,P) = 15.8, J(f',P') = 15.6  
 J(i,i) = 7.2

mixture of diastereomers