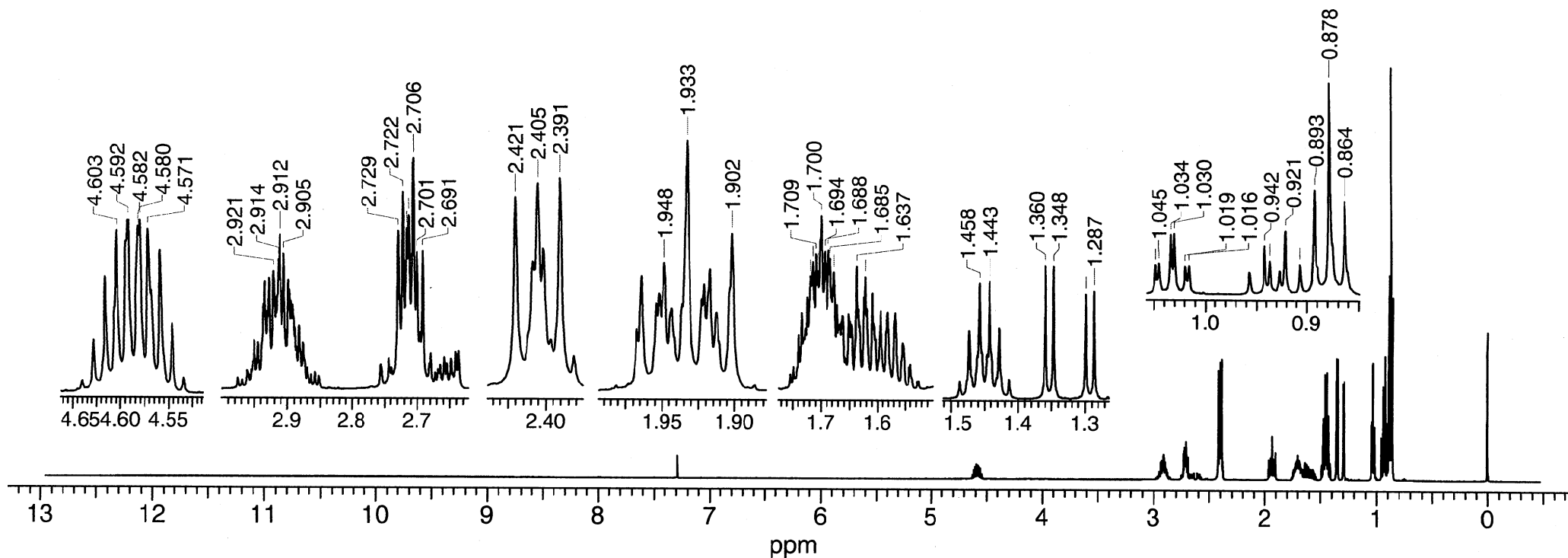


sec-Butyl S-2-dipropylaminoethyl propylphosphonothiolate

¹H NMR

7-3-704



Res.freq: 499.83 MHz
 Solvent: CDCl₃
 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: 4.2 s
 Resolution: 0.5 Hz (TMS)
 Instrument: Varian INOVA 500

Um Mein

nuc δ[ppm]
 a,a': 0.921, 0.942
 b: 1.525-1.754
 c: 4.587
 d,d': 1.293, 1.354
 e: 1.902-1.967
 f: 1.630-1.754
 g: 1.032
 h: 2.852-2.975
 i: 2.575-2.756
 j: 2.405
 k: 1.451
 l: 0.878

J[Hz]
 J(a,b) = 7.4, J(a',b) = 7.6
 J(d,c) = J(d',c) = 6.2
 J(g,P) = 1.8, J(g,f) = 7.4
 J(l,k) = 7.4

mixture of diastereomers

