

L2561-1  
OM 960011U

**Supplementary Material** for Toltl, N.P.; Leigh, W.J. "Synthesis and Isolation of Stable 1,2-Siloxetanes from Reaction of Transient Silenes with Acetone".

Figure 1. 200 MHz  $^1\text{H}$  NMR spectrum of the crude reaction mixture from photolysis of a deoxygenated cyclohexane- $d_{12}$  solution of **1d** (0.05 M), acetone (0.075 M), chloroform (0.075 M), and dichloromethane (0.05 M; internal standard) to ca. 8% conversion.

Figure 2. 200 MHz  $^1\text{H}$  NMR spectrum of the crude reaction mixture from photolysis of a deoxygenated cyclohexane- $d_{12}$  solution of **1a** (0.05 M), pinacolone (0.075 M), and dichloromethane (0.05 M; internal standard) to ca. 12% conversion.

Figure 3. FTIR spectrum of 1,2-siloxetane **3a** (thin film).

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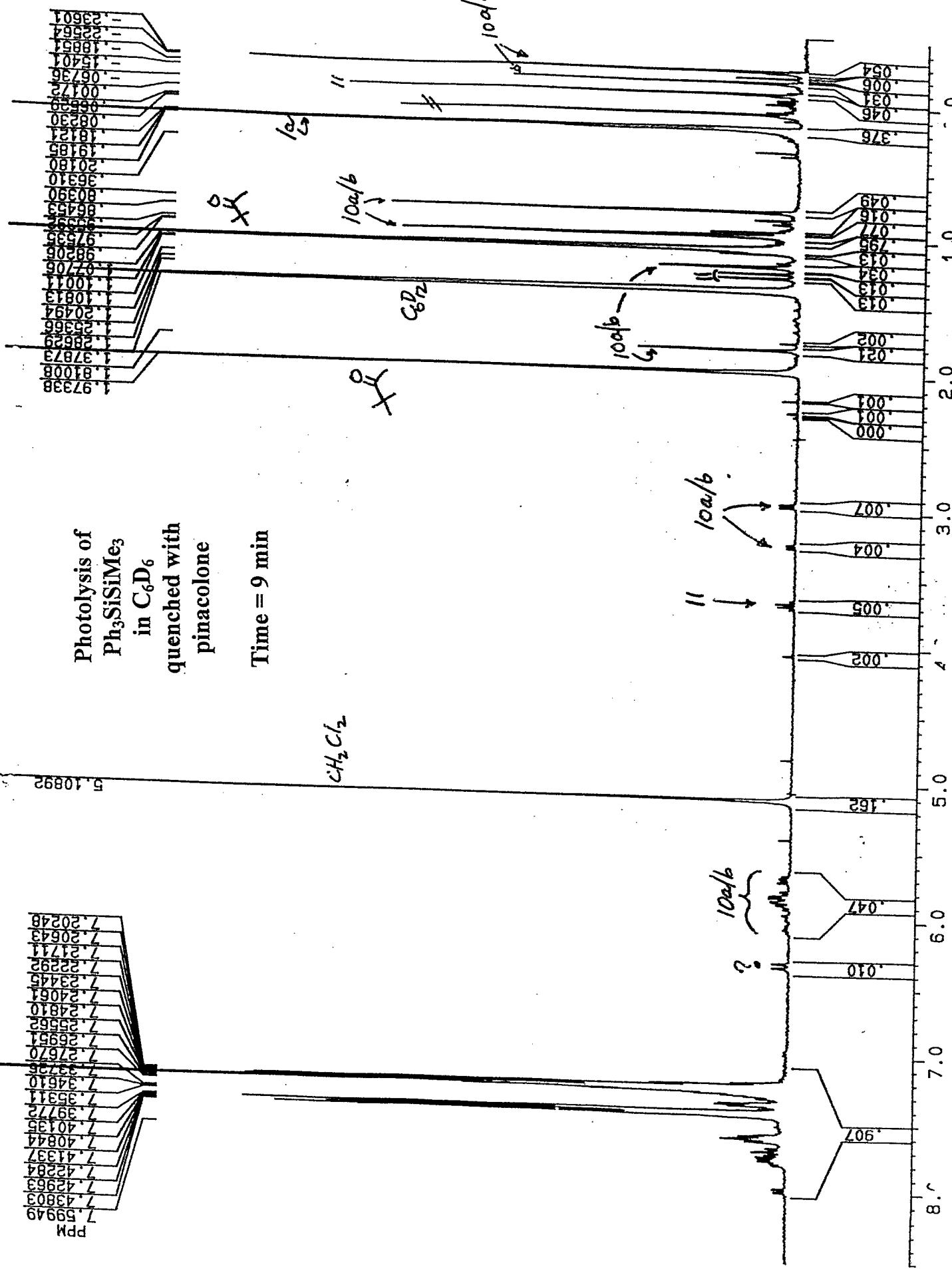
Photolysis of  
 $\text{Ph}_3\text{SiSiMe}_3$   
 in  $\text{C}_6\text{D}_6$   
 quenched with  
 pinacolone

Time = 9 min

 $\text{CH}_2\text{Cl}_2$ 

PPM

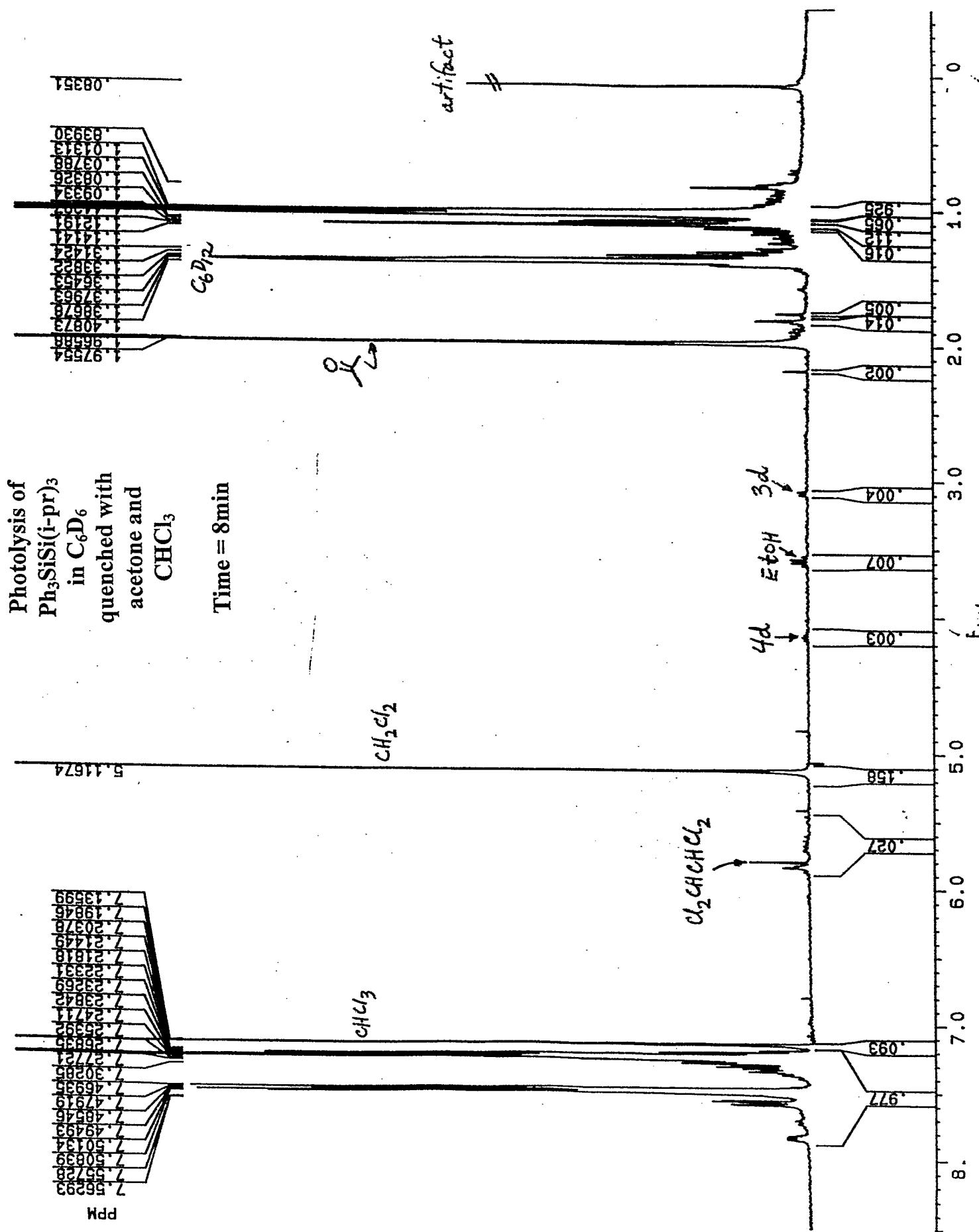
- 7.59949
- 7.43803
- 7.42963
- 7.41337
- 7.40135
- 7.39722
- 7.39311
- 7.3910
- 7.38726
- 7.34610
- 7.33311
- 7.32760
- 7.26951
- 7.25562
- 7.24810
- 7.24061
- 7.23445
- 7.22292
- 7.21111
- 7.20643
- 7.20248



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Photolysis of  
 $\text{Ph}_3\text{SiSi(i-pr)}_3$   
 in  $\text{C}_6\text{D}_6$   
 quenched with  
 $\text{CHCl}_3$

Time = 8 min



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