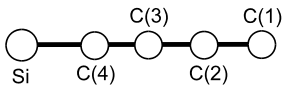
**616** **$C_4Si$** **5-Silapenta-1,2,3,4-tetraene-1,5-diylidene** **$C_{\infty v}$**
MW, *ab initio* calculations 4-Silylene-1,2,3-butatrienylidene C=C=C=C=Si




| $r_0$ | Å |
|---|---|
| Si=C(4) | 1.682(8) |
| C(4)=C(3) | 1.280(13) |
| C(3)=C(2) | 1.299(10) |
| C(2)=C(1) | 1.274(4) |

| $r_e$ | Å [a]) |
|---|---|
| Si=C(4) | 1.693(5) |
| C(4)=C(3) | 1.273(5) |
| C(3)=C(2) | 1.299(5) |
| C(2)=C(1) | 1.281(5) |

[a]) Derived by converting the experimental rotational constants to equilibrium constants using the vibration-rotation coupling constants from coupled-cluster calculations, including connected triple substitutions, CCSD(T)/cc-pVTZ or cc-pVQZ. Uncertainties were not estimated in the original paper.

Gordon, V.D., Nathan, E.S., Apponi, A.J., McCarthy, M.C., Thaddeus, P., Botschwina, P.: J. Chem. Phys. **113** (2000) 5311.