Unit	Method ^a	Distance [Å]	$\rho(\mathbf{r}_{c}) [e/Å^{3}]$	$ abla^2 ho(\mathbf{r}_c) \ [e/Å^5]$	Ellipticity ε
Li…N_a	Experiment	1.9508	0.215(2)	5.201(2)	0.02
	Theory	1.9636	0.24	4.76	0.04
Li–C1	Experiment	2.2049	0.150(2)	2.521(1)	0.12
	Theory	2.1757	0.19	2.52	0.11
C1–Si2	Experiment	1.8592(4)	0.859(14)	1.73(3)	0.13
	Theory	1.8819	0.80	3.16	0.11
C1–Si1	Experiment	1.8552(4)	0.756(15)	4.25(3)	0.19
	Theory	1.8798	0.78	3.16	0.12
C1-C11	Experiment	1.4798(5)	1.78(2)	-11.29(5)	0.12
	Theory	1.4783	1.73	-13.38	0.11
Si1–C2	Experiment	1.8804(6)	0.693(17)	4.63(3)	0.22
	Theory	1.9050	0.79	2.92	0.01
Si1–C3	Experiment	1.8930(8)	0.758(14)	2.73(3)	0.20
	Theory	1.9197	0.76	2.99	0.01
Si1–C4	Experiment	1.8781(7)	0.765(16)	4.23(3)	0.14
	Theory	1.9023	0.79	3.01	0.01
Si2–C5	Experiment	1.8811(5)	0.714(16)	5.39(3)	0.12
	Theory	1.9083	0.78	2.91	0.01
Si2–C6	Experiment	1.8888(6)	0.735(16)	4.41(3)	0.07
	Theory	1.9094	0.78	2.89	0.02
Si2–C7	Experiment	1.8947(7)	0.717(16)	3.84(3)	0.03
	Theory	1.9180	0.76	2.97	0.01

S2: Topological analysis and geometrical parameters of [{2-(Me₃Si)₂C(Li)C₅H₄N}₂].

^{*a*} the experimental values were obtained by multipole refinement of the experimental charge density (see S1), the theoretical calculations were performed at the B3LYP/6–311G(3d, 3p)//B3LYP/6–31G(d) level of theory.

Unit	Method ^a	Distance [Å]	$\rho(\mathbf{r}_{c}) [e/Å^{3}]$	$ abla^2 ho(\mathbf{r}_c) \ [e/\AA^5]$	Ellipticity ɛ
N-C11	Experiment	1.3636(6)	2.17(3)	-17.34(13)	0.23
	Theory	1.3729	2.16	-22.96	0.10
C11-C12	Experiment	1.4168(6)	2.06(2)	-16.48(5)	0.21
	Theory	1.4223	2.01	-18.88	0.18
C12-C13	Experiment	1.3834(7)	2.165(19)	-19.03(4)	0.23
	Theory	1.3846	2.13	-21.06	0.21
C13–C14	Experiment	1.3948(7)	2.133(19)	-18.090(0)	0.24
	Theory	1.4000	2.07	-20.04	0.17
C14-C15	Experiment	1.3821(7)	2.20(3)	-20.68(6)	0.24
	Theory	1.3858	2.13	-21.20	0.23
N-C15	Experiment	1.3454(7)	2.39(3)	-22.34(12)	0.22
	Theory	1.3450	2.27	-24.80	0.13
C7–H7c	Experiment	1.0981	1.71(4)	-12.85(11)	0.08
	Theory	1.1009	1.78	-20.03	0.03
C3–H3b	Experiment	1.1003	1.73(5)	-13.01(17)	0.05
	Theory	1.0974	1.81	-20.78	0.03
C3-H3c	Experiment	1.0919	1.65(4)	-12.64(11)	0.08
	Theory	1.1001	1.79	-20.25	0.03
C3–Li_a	Experiment	2.5107	0.082(1)	0.828(1)	0.69
	Theory	2.4793	0.06	1.30	0.98

^{*a*} the experimental values were obtained by multipole refinement of the experimental charge density (see S1), the theoretical calculations were performed at the B3LYP/6–311G(3d, 3p)//B3LYP/6–31G(d) level of theory.

Selected angles [deg] for [{2-(Me₃Si)₂C(Li)C₅H₄N}₂].^{*a*}

C1–Li–N_a	Experiment	145.90	Li_a–N–C11	Experiment	104.12
	Theory	142.9		Theory	110.4
Li_a–Li–C1	Experiment	65.55	Li-C1-Si1	Experiment	104.51
	Theory	70.6		Theory	105.1
Li–Li_a–N	Experiment	104.46	Li-C1-Si2	Experiment	88.92
	Theory	95.7		Theory	90.6
Li_a–N–C15	Experiment	135.39	Li-C1-C11	Experiment	123.15
	Theory	128.6		Theory	116.5

^{*a*} the experimental values were obtained by multipole refinement of the experimental charge density (see S1), the theoretical calculations were performed at the B3LYP/6-311G(3d, 3p)//B3LYP/6-31G(d) level of theory.