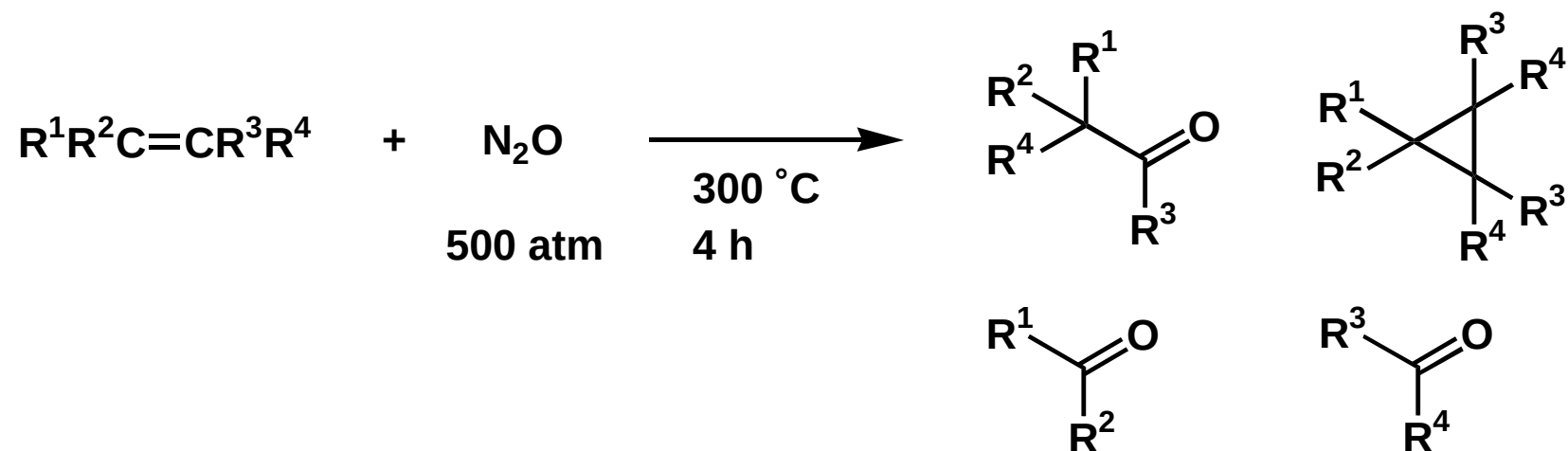
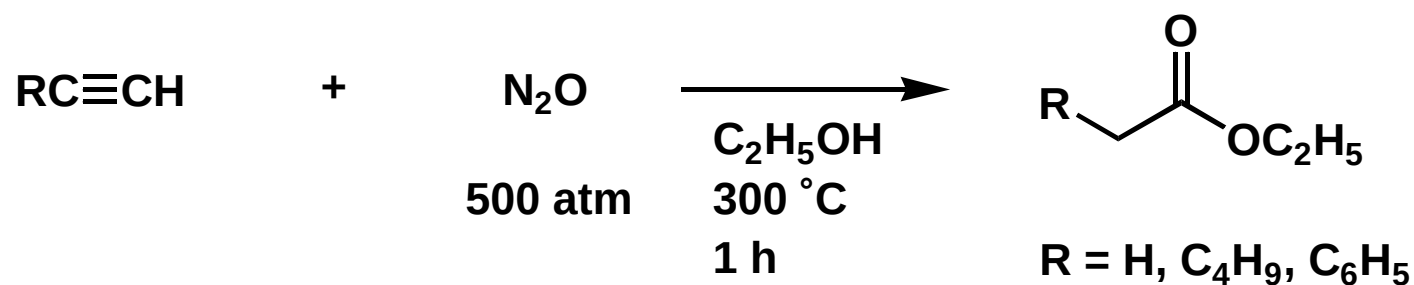


REACTION OF N₂O WITH ALKENE AND ALKYNE

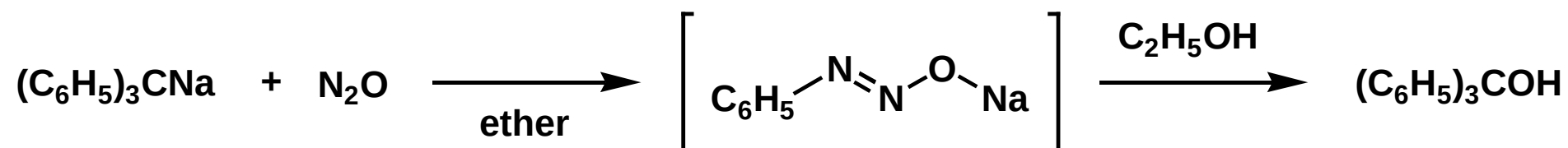


F. S. Bridson-Jones et al., *J. Chem. Soc.* **1951**, 2999.

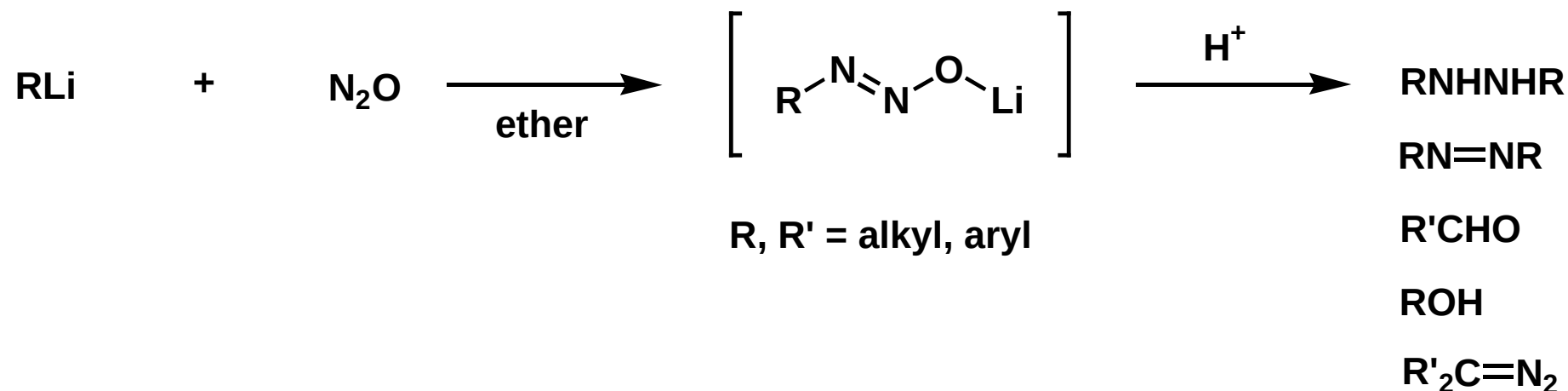


G. D. Buckley et al., *J. Chem. Soc.* **1951**, 3016.

REACTION OF N₂O WITH ORGANOMETALLIC COMPOUNDS

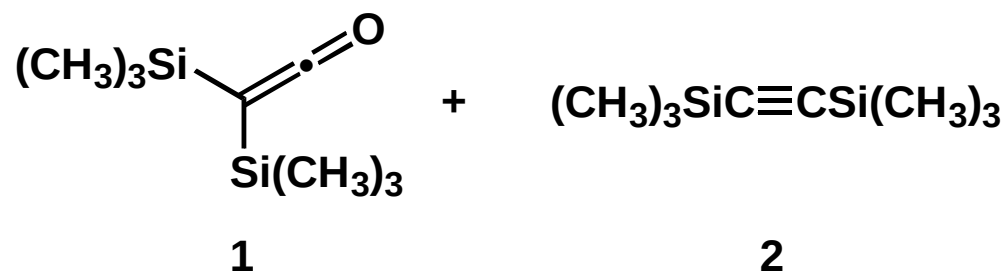
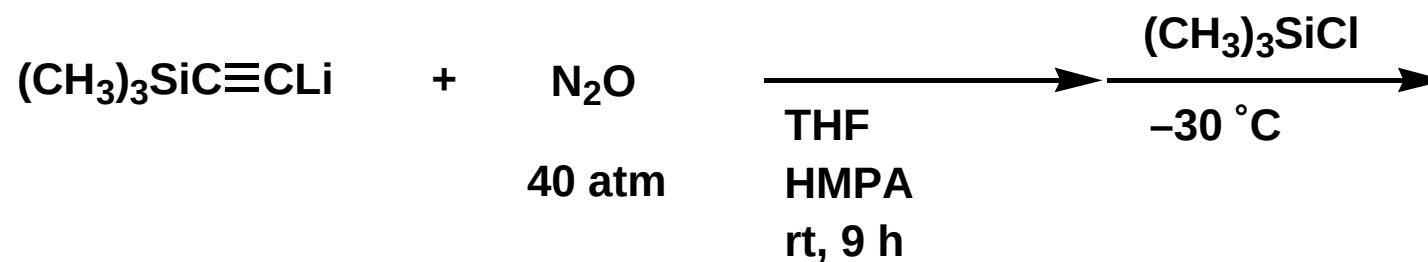


W. Schlenk et al., *Ann.* **1928**, 464, 1.



F. M. Beringer et al., *J. Am. Chem. Soc.* **1953**, 75, 3984.

REACTION OF LITHIUM ACETYLIDE WITH N₂O

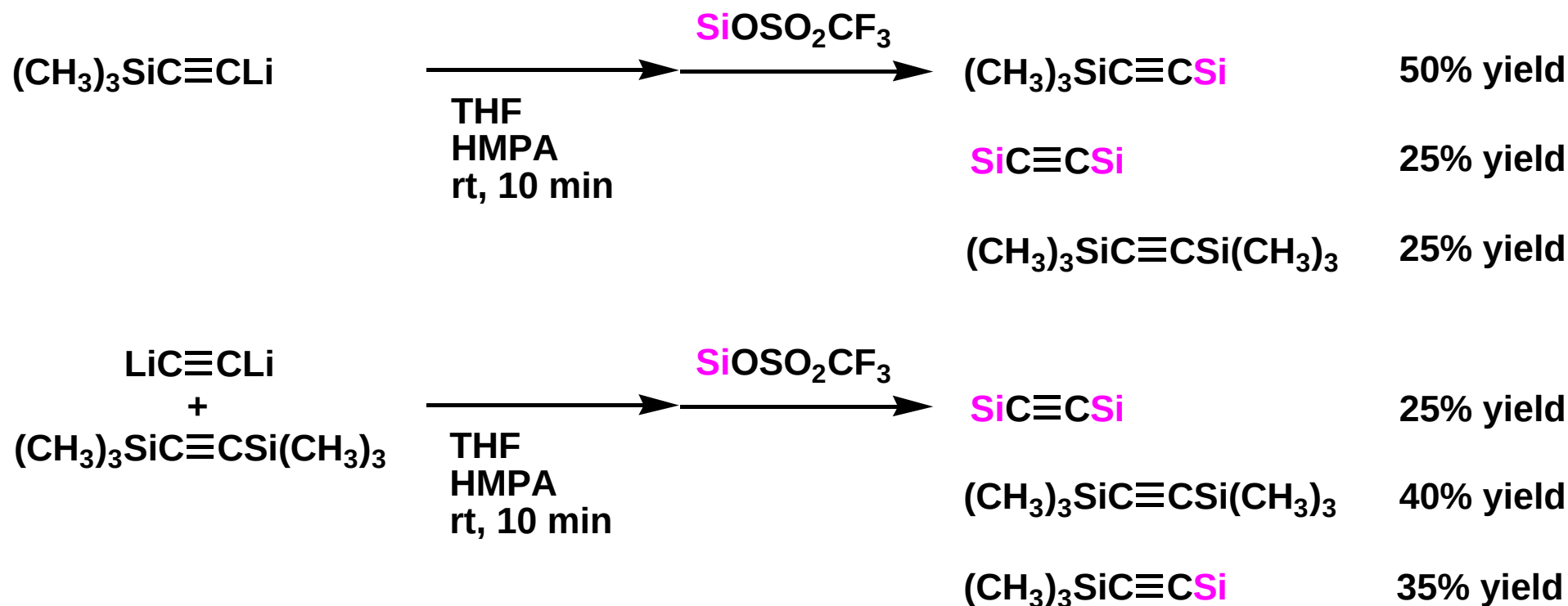


HMPA, equiv	yield, % ^a	
	1	2
none	5	50
1	21	42
2	30	42
3	47	35
4	45	45

HMPA = hexamethylphosphoramide

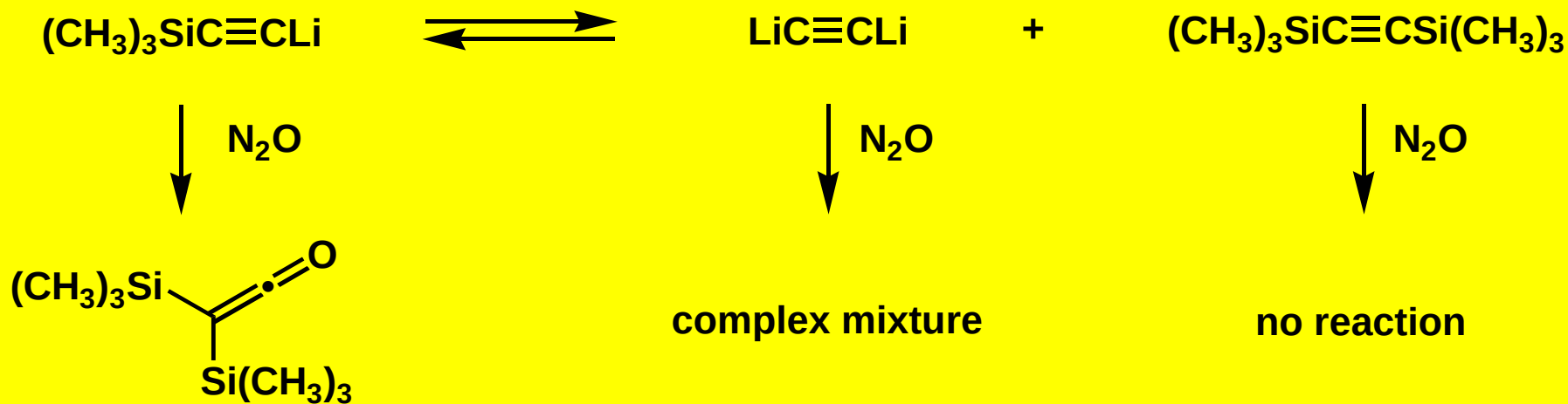
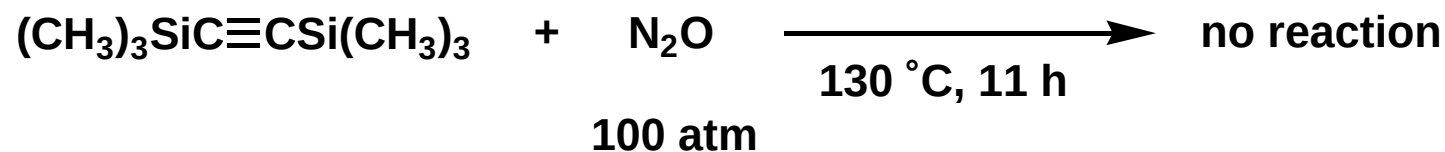
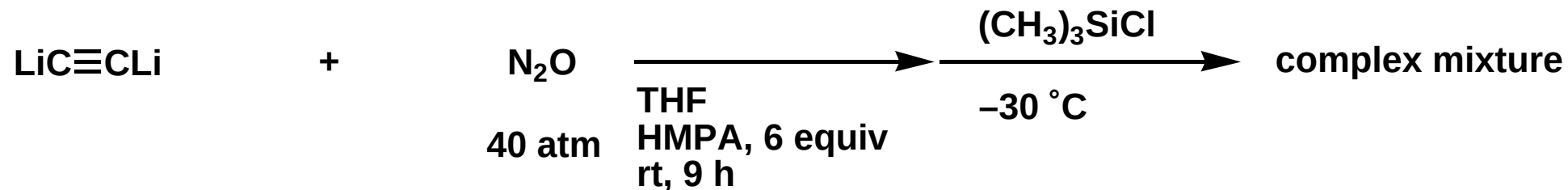
^a Determined by ¹H NMR.

DISPROPORTIONATION OF MONOLITHIUM ACETYLIDE

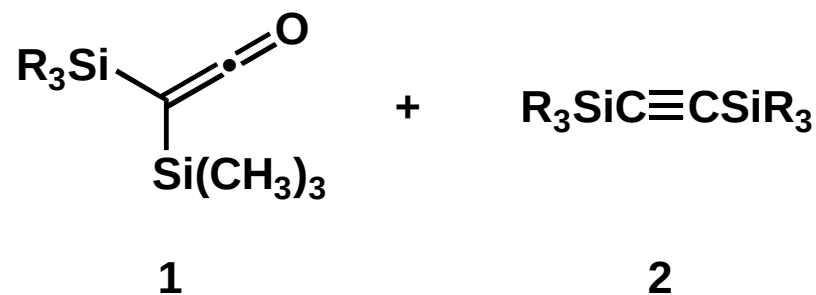
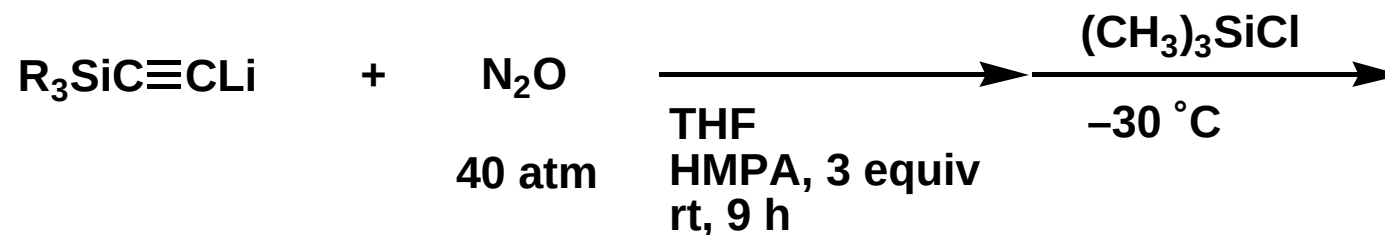


$\text{Si} = (t\text{-C}_4\text{H}_9)(\text{CH}_3)_2\text{Si}$. Yields are based on $[\text{Li}]$.

REACTIONS OF ACETYLENIC COMPOUNDS WITH N₂O



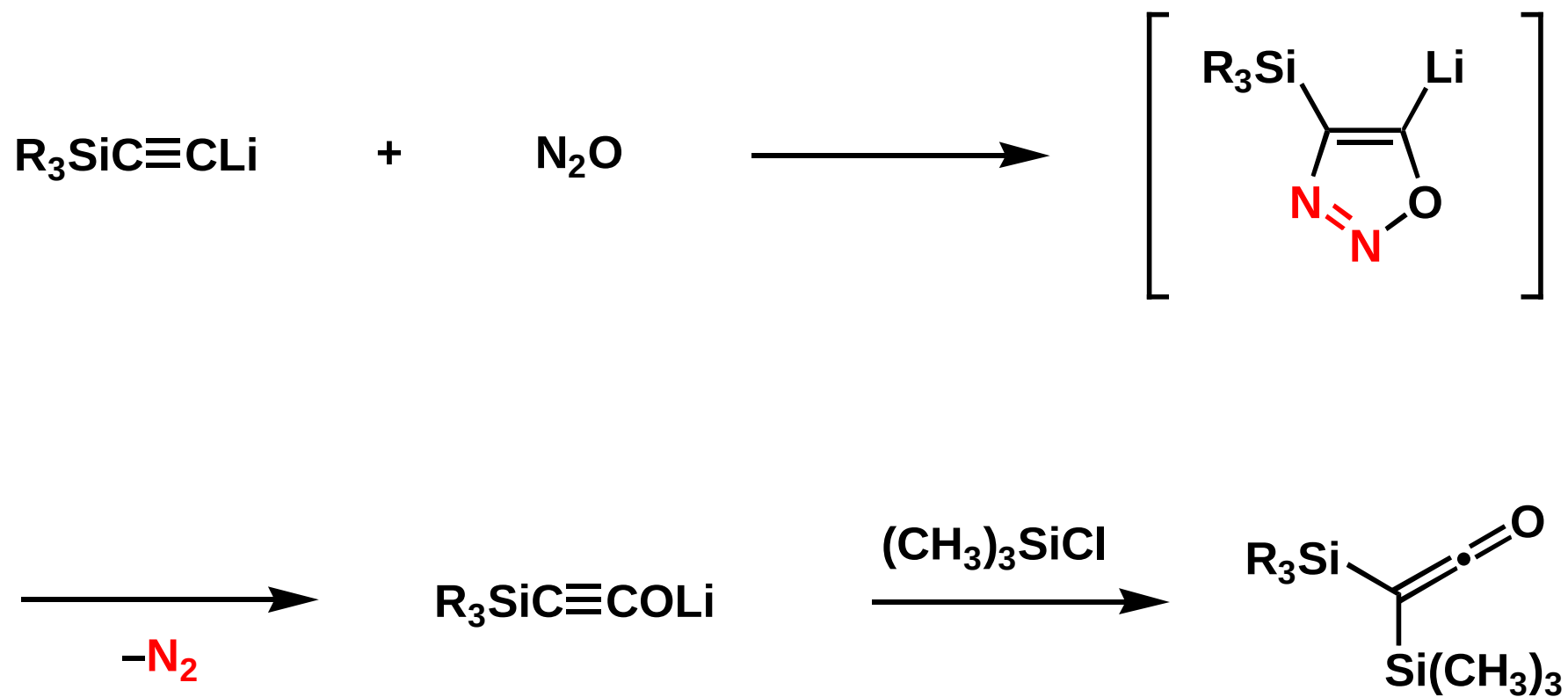
REACTION OF VARIOUS 1-LITHIO-2-SILYLACETYLENES



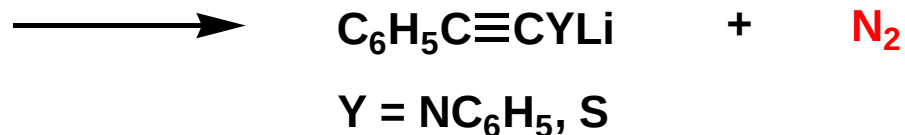
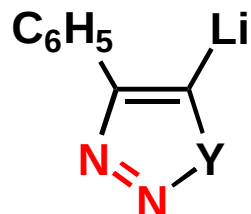
R ₃ Si	yield, % ^a	
	1	2
(CH ₃) ₃ Si	47	35
(<i>t</i> -C ₄ H ₉)(CH ₃) ₂ Si	45	10
(<i>i</i> -C ₃ H ₇) ₃ Si	47	23

^a Determined by ¹H NMR.

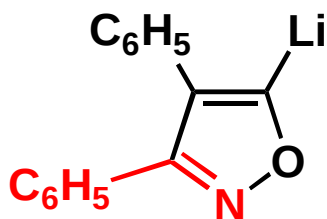
A POSSIBLE MECHANISM



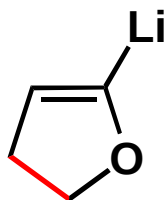
DECOMPOSITION OF LITHIATED 5-MEMBERED HETEROCYCLIC COMPOUNDS



M. R. Grimmett and B. Iddon, *J. Chem. Soc.* **1951**, 3016.



Hoppe. I, Schollkopf. U, *Justs Liebigs Ann. Chem.* **1979**, 219.



T. J. Barton et al., *J. Am. Chem. Soc.* **1987**, 109, 7568.

SUMMARY

