

Supporting Information

Effect of Liquid Confinement on Regioselectivity in the Hydrosilylation of Alkynes With Cationic Rh (I) *N*-Heterocyclic Carbene Catalysts

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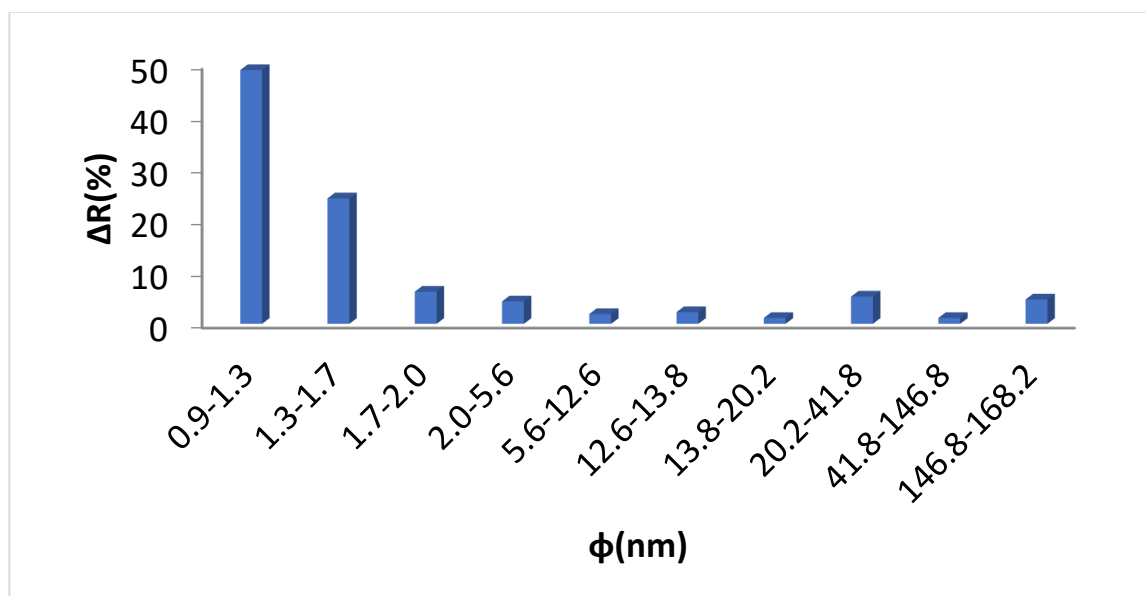


Figure S1. Representative pore size distribution of a ROMP-derived monolith. Relative abundance ΔR (%) of pores with different diameters Φ (nm).

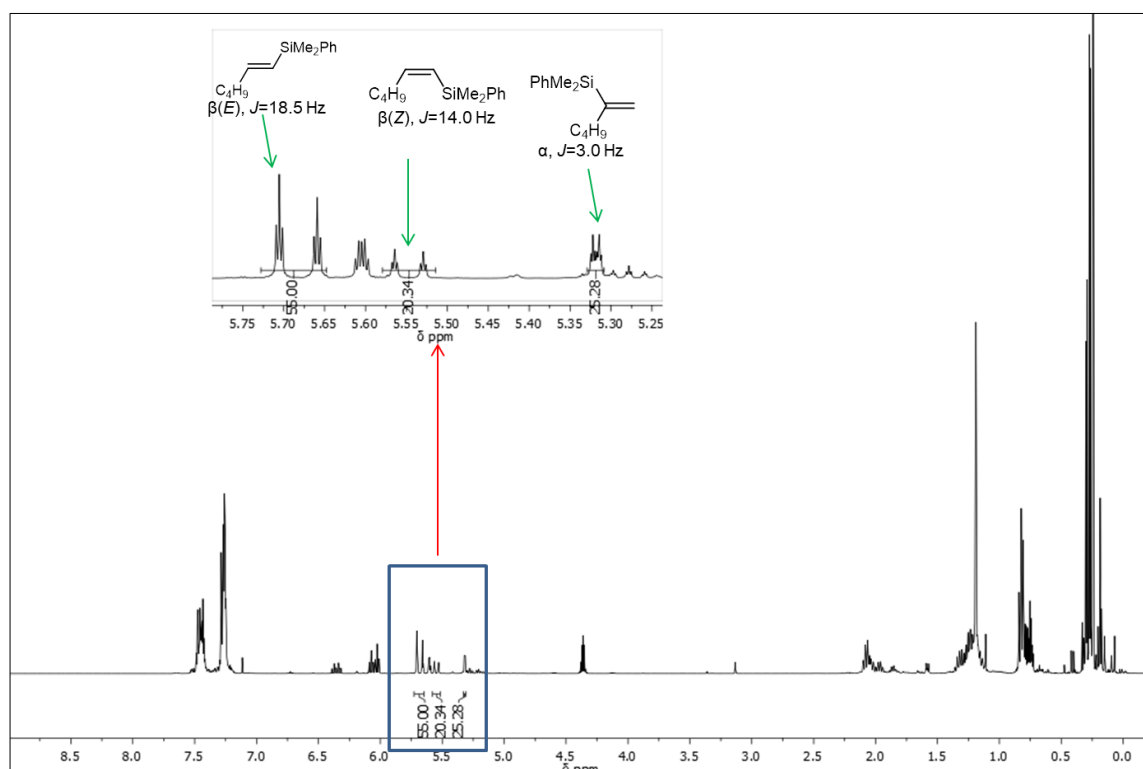


Figure S2. ^1H NMR spectrum (CDCl_3 , 298K) of the hydrosilylation of 1-hexyne with HSiMe_2Ph catalyzed by **Rh@biphasic**.

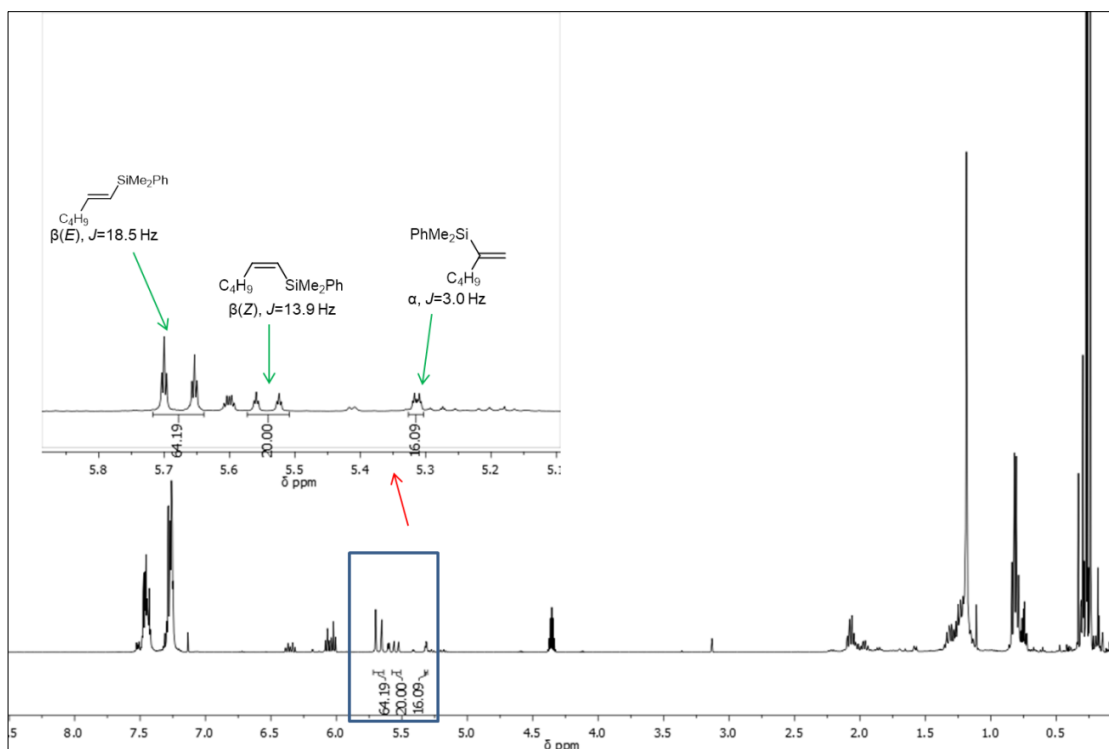


Figure S3. ^1H NMR spectrum (CDCl₃, 298K) of the hydrosilylation of 1-hexyne with HSiMe₂Ph catalyzed by Rh@SILPR_{OMP-0}.

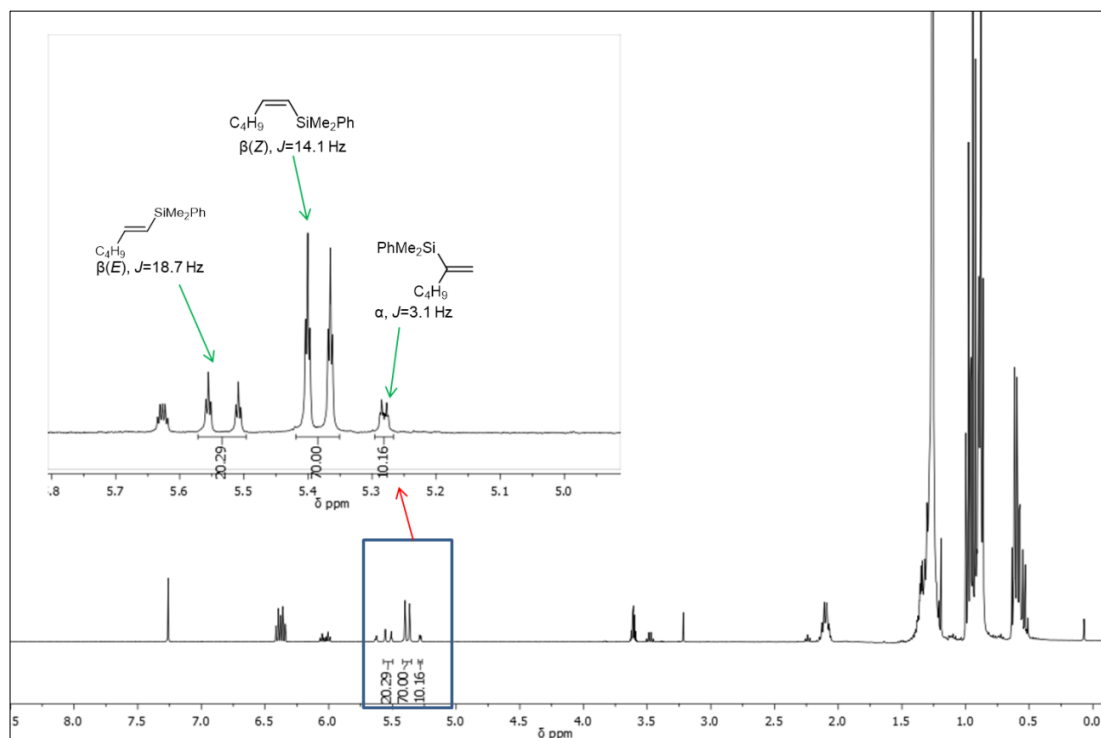


Figure S4. ^1H NMR spectrum (CDCl₃, 298K) of the hydrosilylation of 1-hexyne with HSiMe₂Ph catalyzed by Rh@SILP_{OMP-10}.

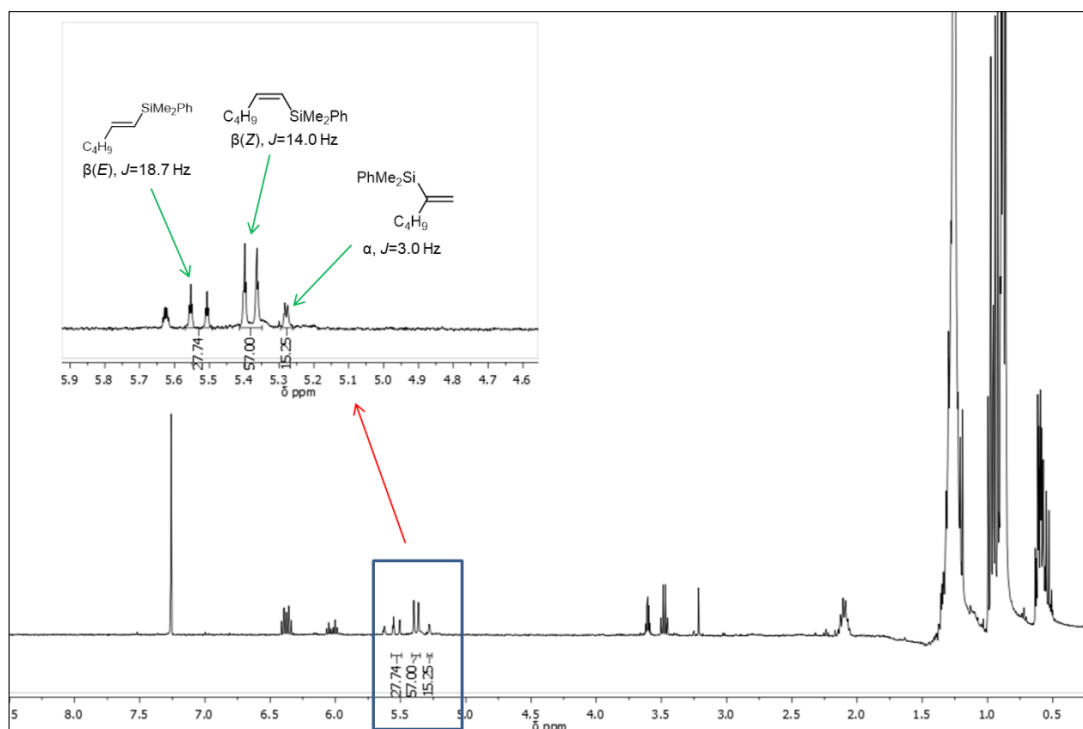


Figure S5. ^1H NMR spectrum (CDCl₃, 298K) of the hydrosilylation of 1-hexyne with HSiMe₂Ph catalyzed by Rh@SILPROMP-25.

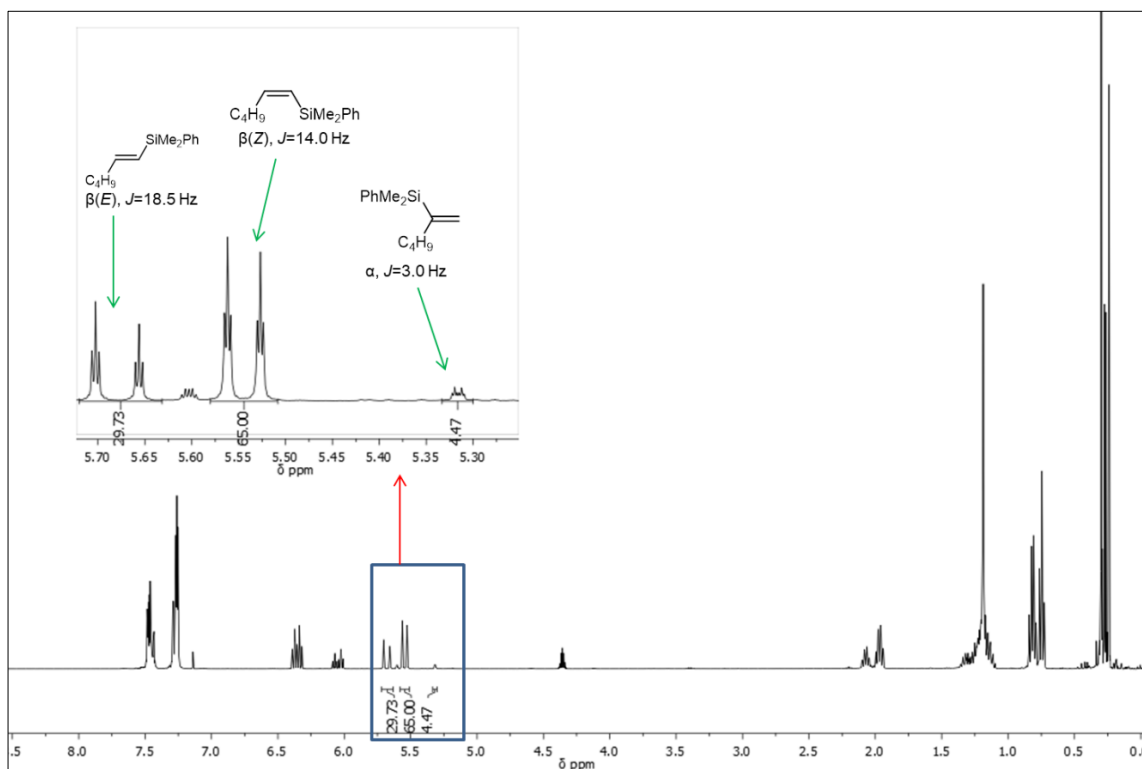


Figure S6. ^1H NMR spectrum (CDCl₃, 298K) of the hydrosilylation of 1-hexyne with HSiMe₂Ph catalyzed by Rh@SILPROMP-50.

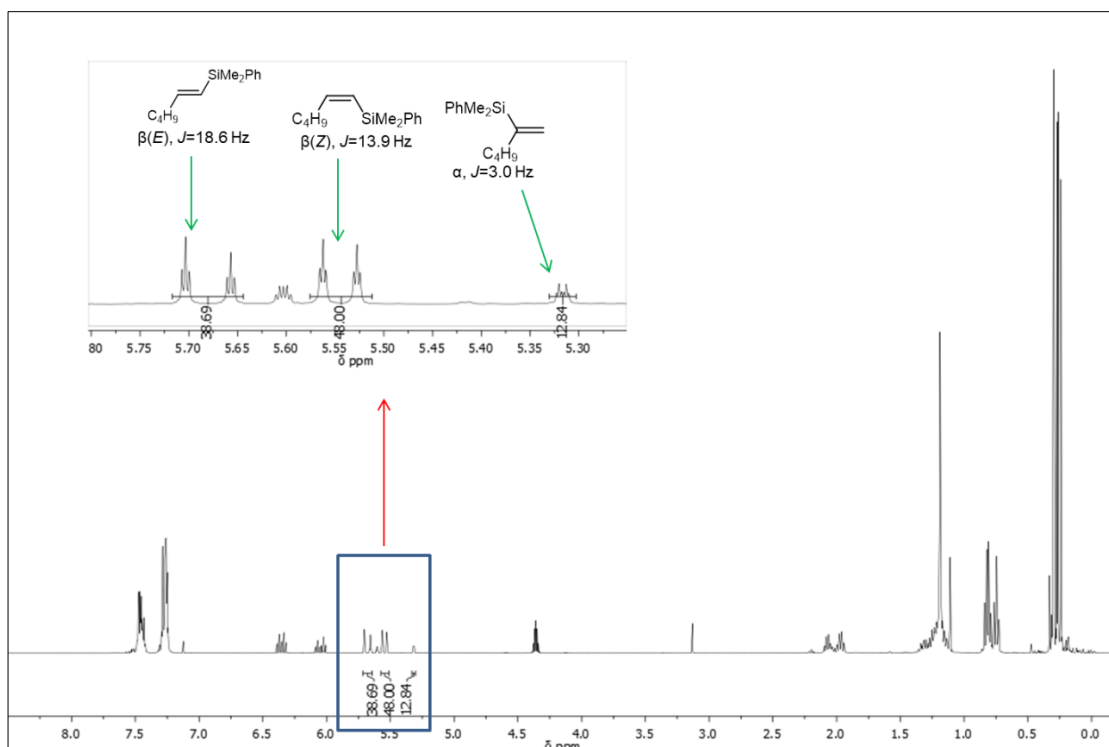


Figure S7. 1H NMR spectrum ($CDCl_3$, 298K) of the hydrosilylation of 1-hexyne with $HSiMe_2Ph$ catalyzed by $Rh@SILP_{ROMP-100}$.

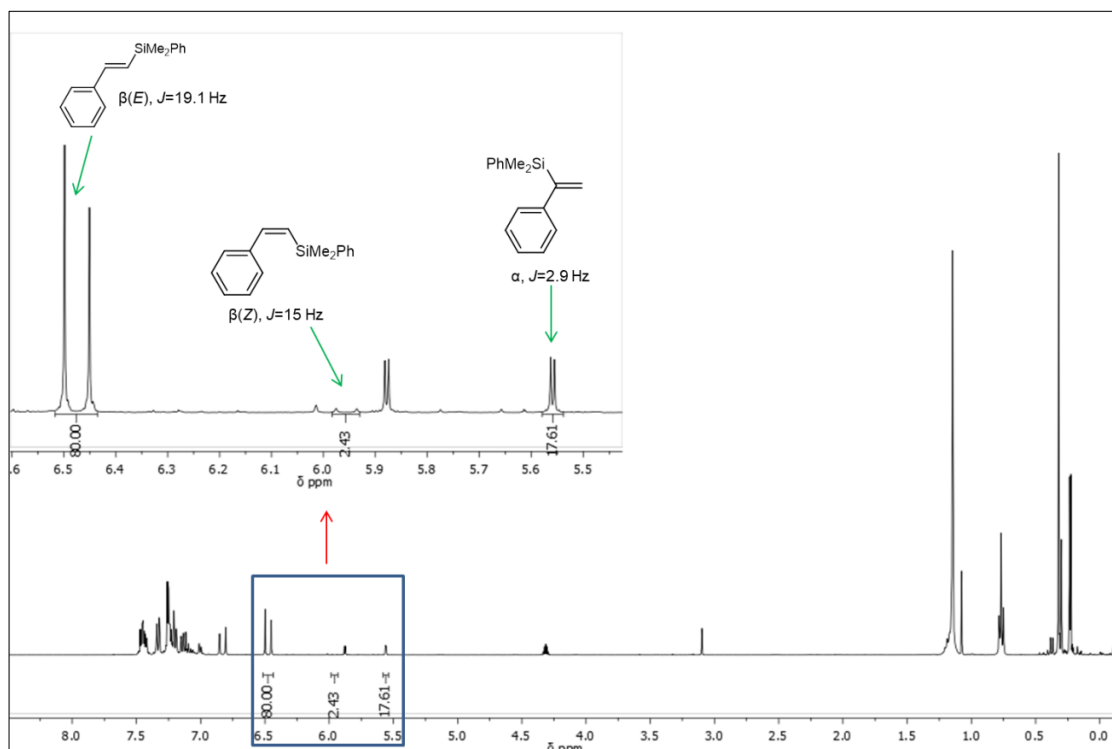


Figure S8. 1H NMR spectrum ($CDCl_3$, 298K) of the hydrosilylation of phenylacetylene with $HSiMe_2Ph$ catalyzed by $Rh@biphasic$.

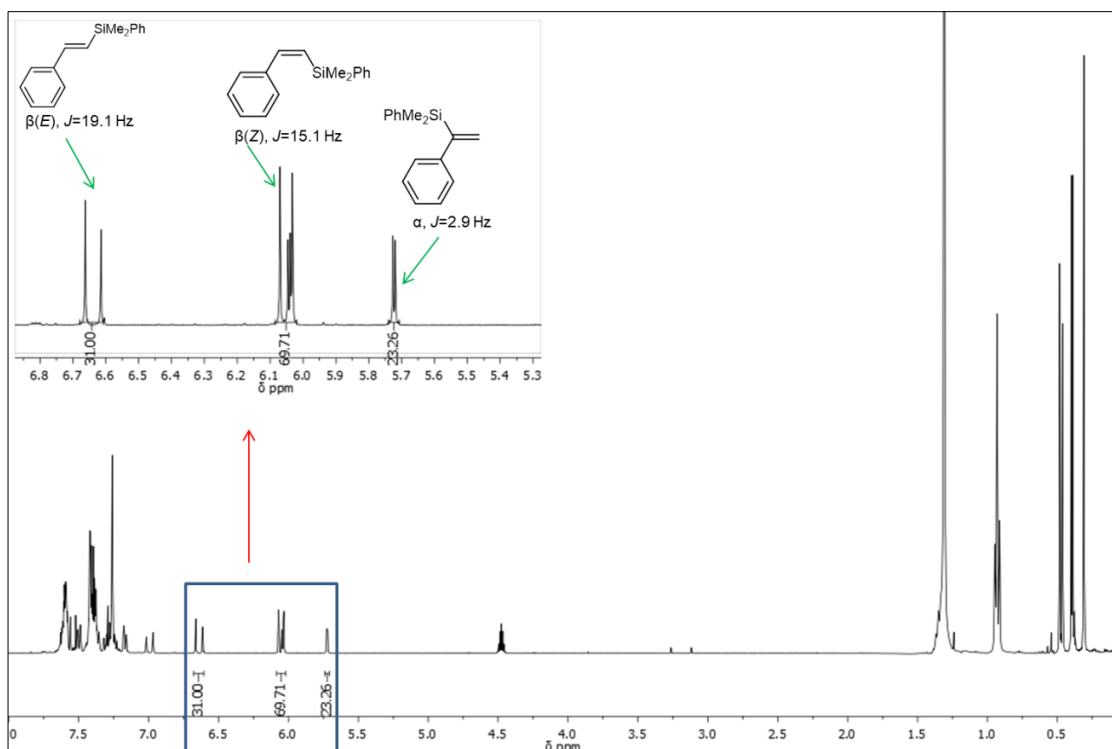


Figure S9. ^1H NMR spectrum (CDCl₃, 298K) of the hydrosilylation of phenylacetylene with HSiMe₂Ph catalyzed by Rh@SILP_{ROMP-100} (exemplary spectrum).

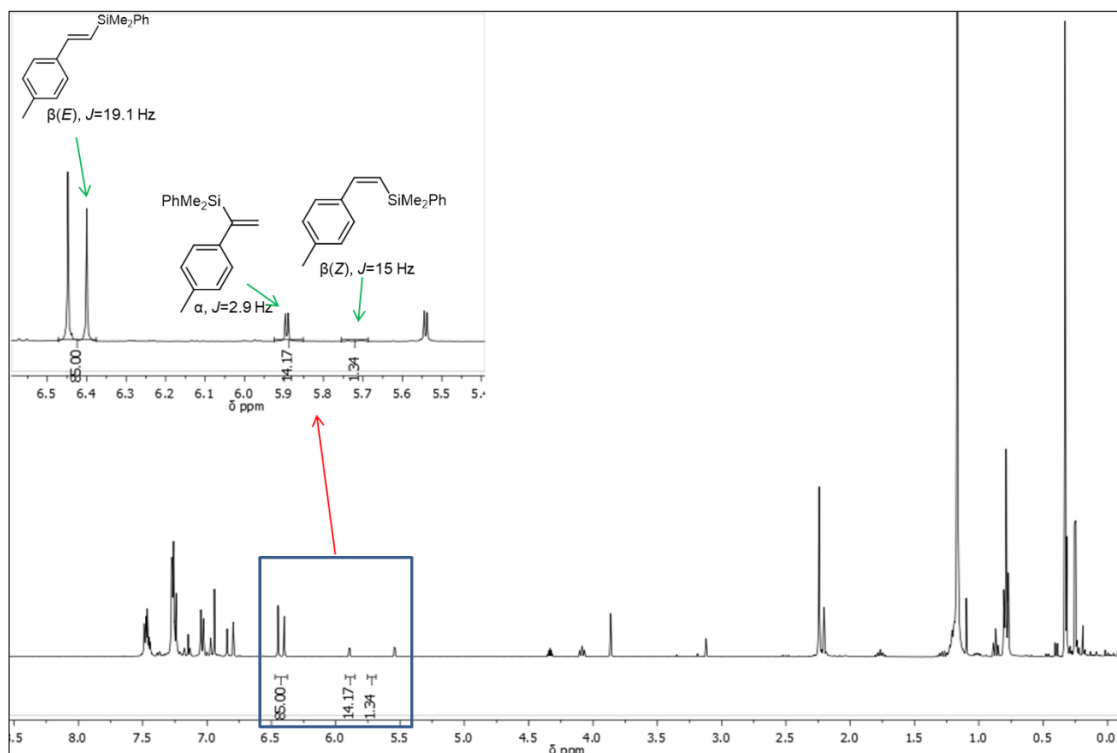


Figure S10. ^1H NMR spectrum (CDCl₃, 298K) of the hydrosilylation of 4-ethynyltoluene with HSiMe₂Ph catalyzed by Rh@biphasic.

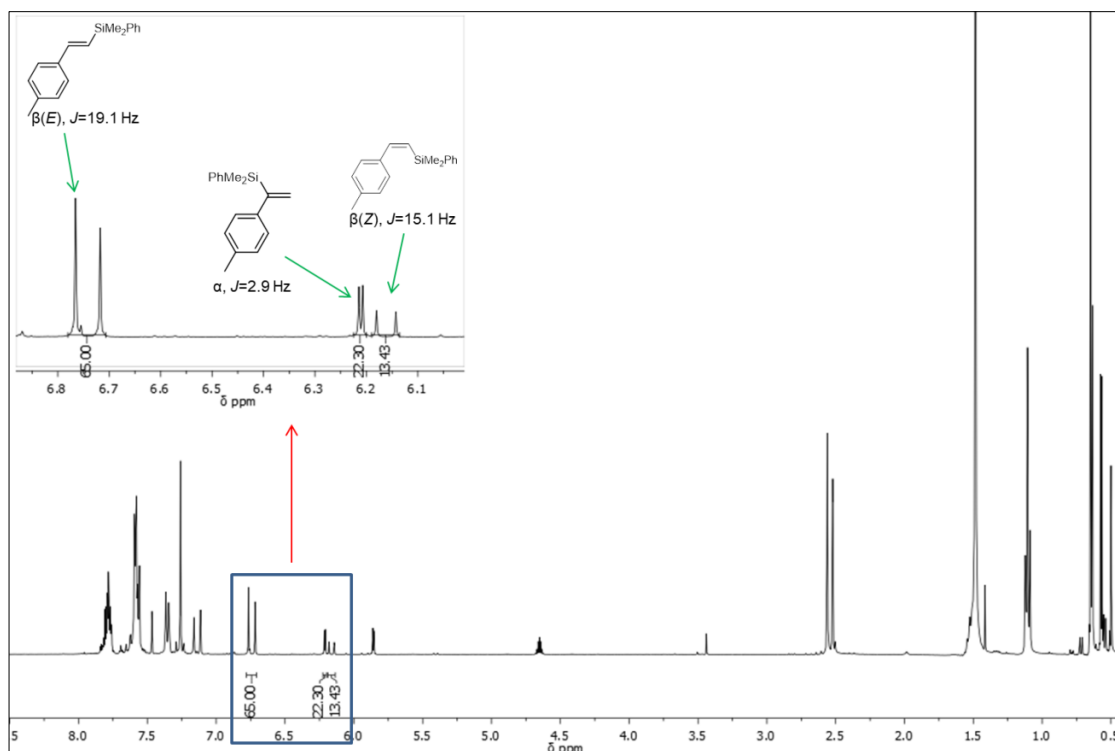


Figure S11. ^1H NMR (CDCl₃, 298K) of the hydrosilylation of 4-ethynyltoluene with HSiMe₂Ph catalyzed by Rh@SILP-ROMP-100 (exemplary spectrum).

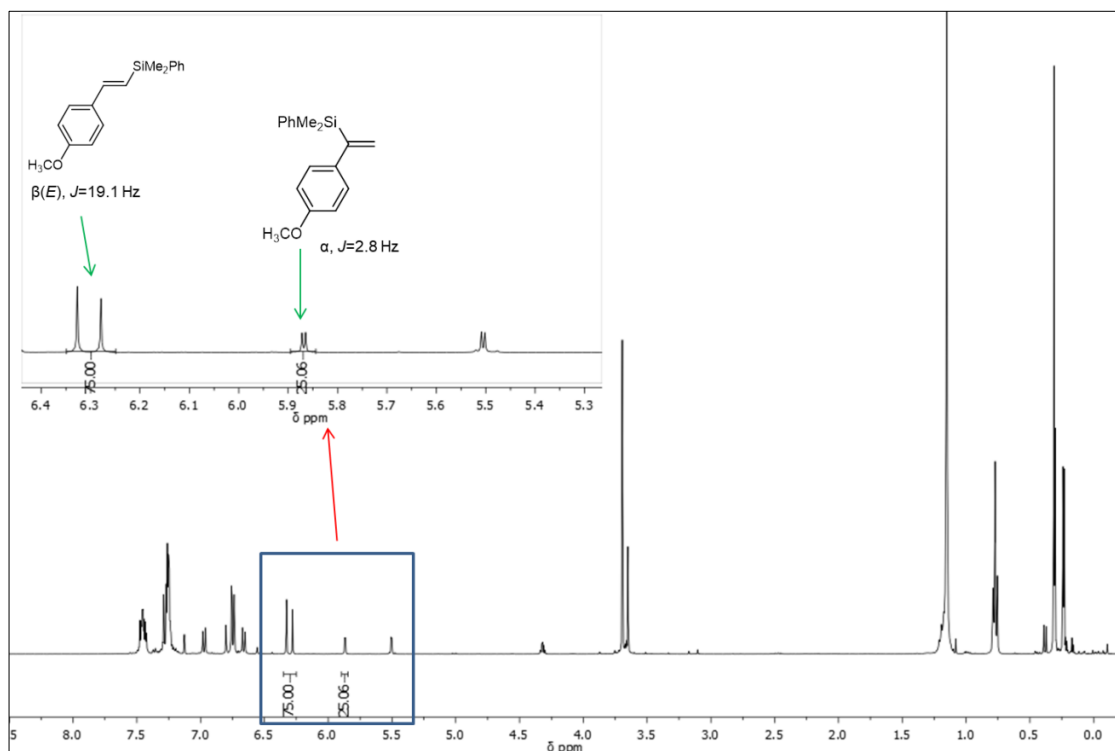


Figure S12. ^1H NMR spectrum (CDCl₃, 298K) of the hydrosilylation of 4-ethynylanisole with HSiMe₂Ph catalyzed by Rh@biphasic.

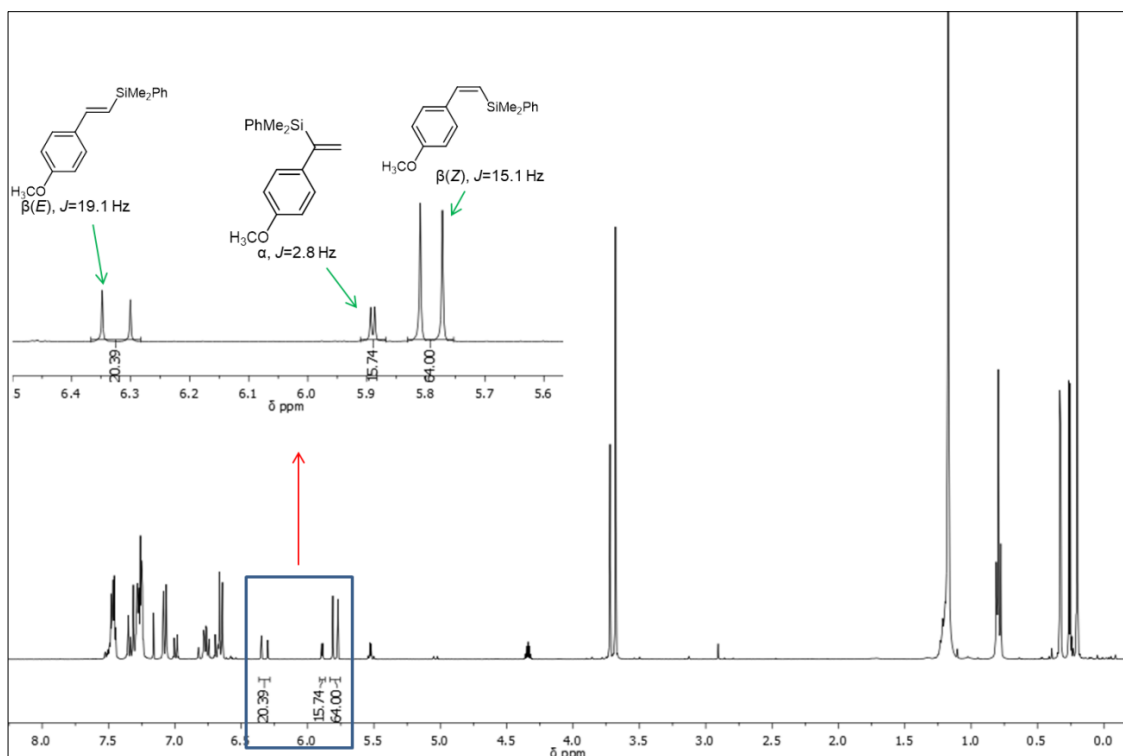


Figure S13. ^1H NMR spectrum (CDCl_3 , 298K) of the hydrosilylation of 4-ethynylanisole with HSiMe_2Ph catalyzed by **Rh@SILP_{ROMP-100}** (exemplary spectrum).

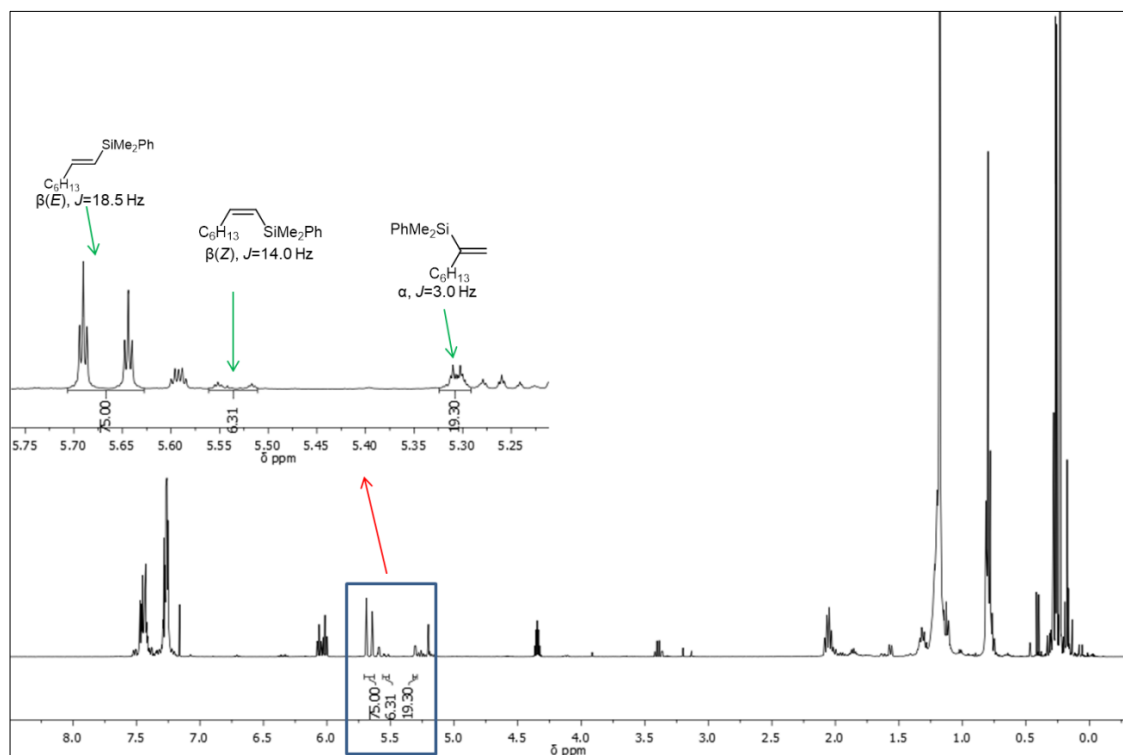


Figure S14. ^1H NMR spectrum (CDCl_3 , 298K) of the hydrosilylation of 1-octyne with HSiMe_2Ph catalyzed by **Rh@biphasic**.

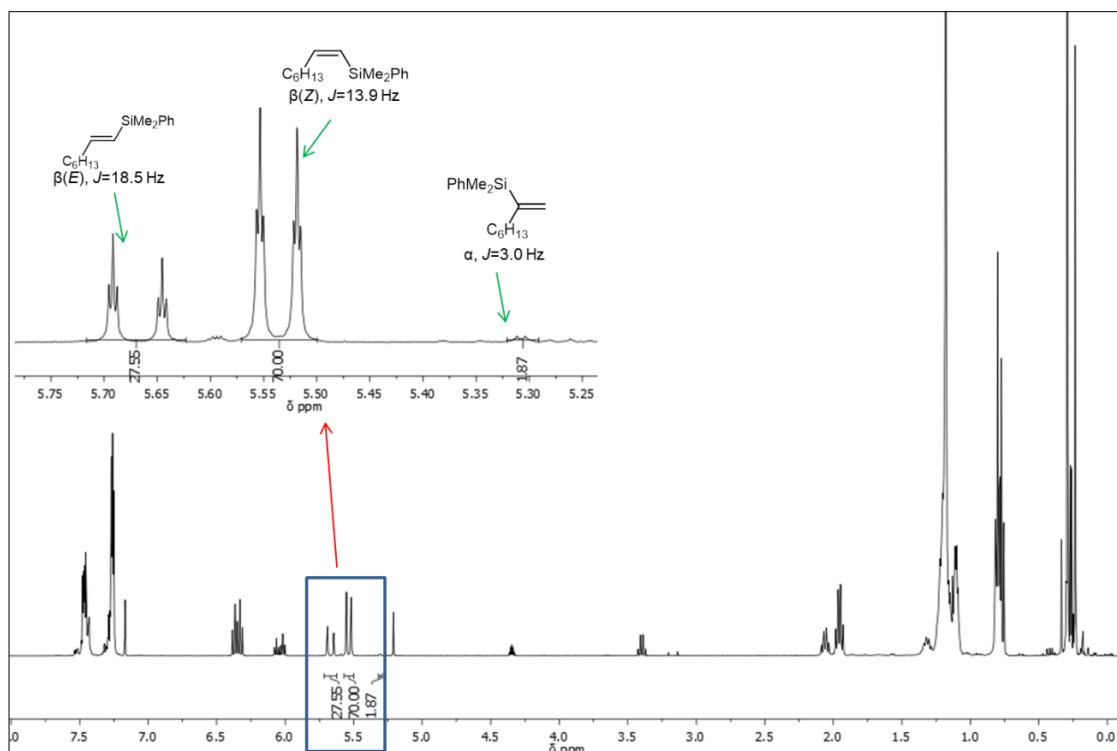


Figure S15. ^1H NMR spectrum (CDCl₃, 298K) of the hydrosilylation of 1-octyne with HSiMe₂Ph catalyzed by Rh@SILP_{ROMP}-100 (exemplary spectrum).

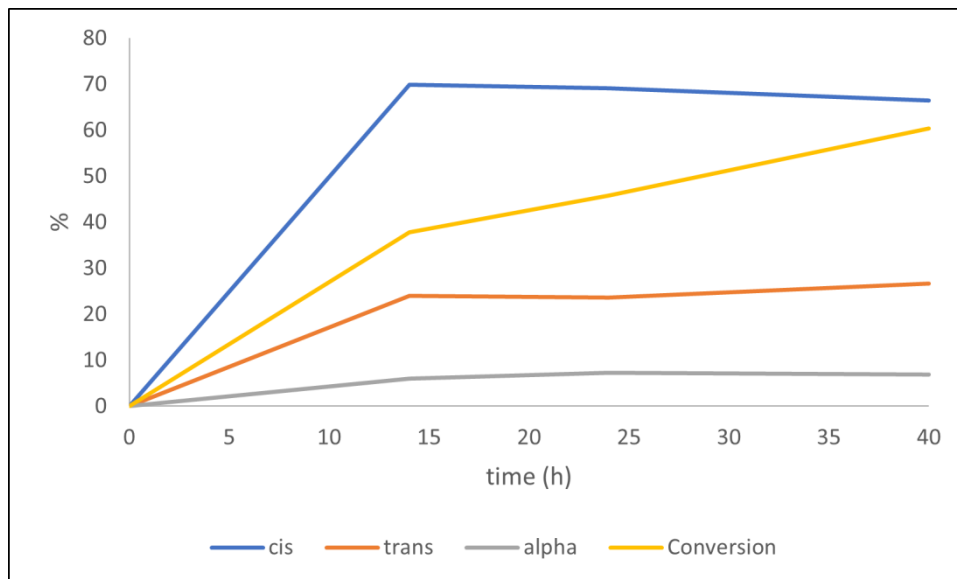


Figure S16. Hydrosilylation of 1-hexyne under continuous flow (0.2 mL/min, Rh@SILP_{ROMP}-10).

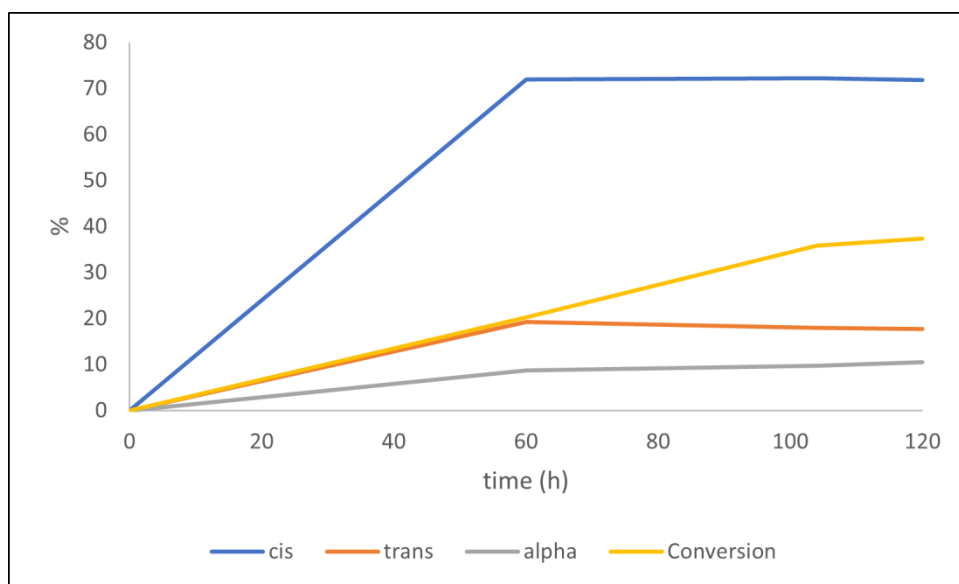


Figure S17. Hydrosilylation of 4-ethynylanisole under continuous flow (0.2 mL/min, **Rh@SILP_{ROMP-10}**).

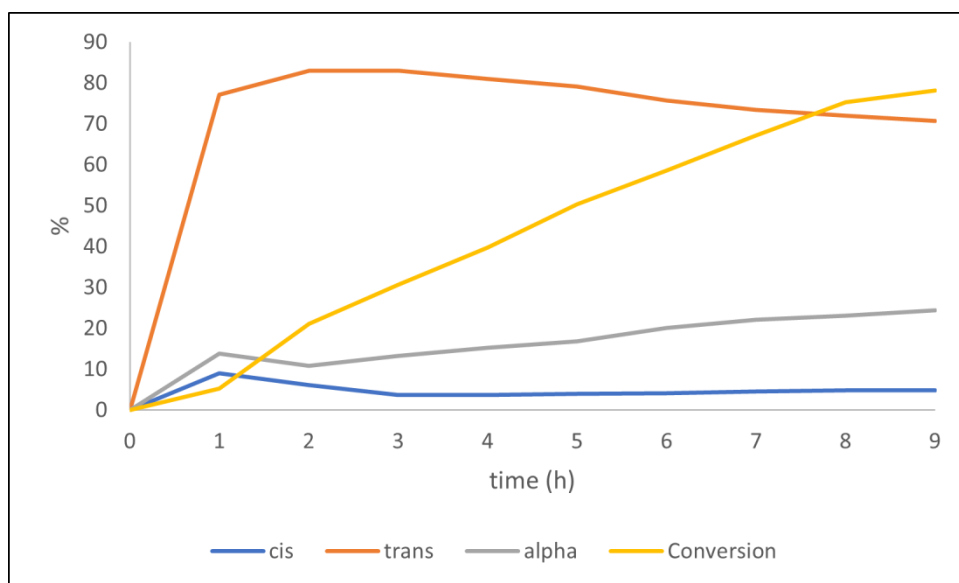


Figure S18. Hydrosilylation of 4-ethynylanisole under biphasic conditions.

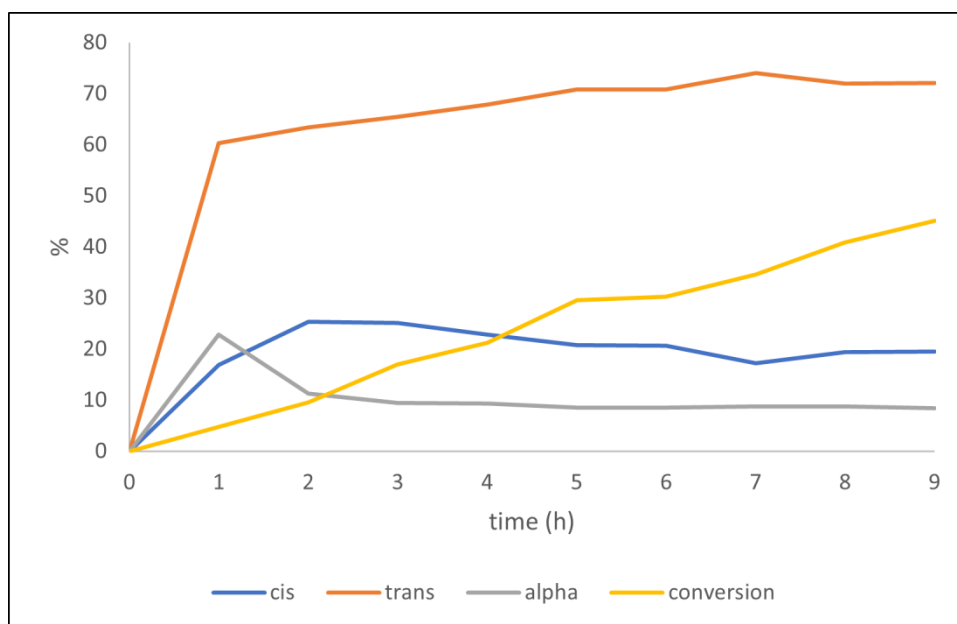


Figure S19. Hydrosilylation of 1-hexyne under biphasic conditions.

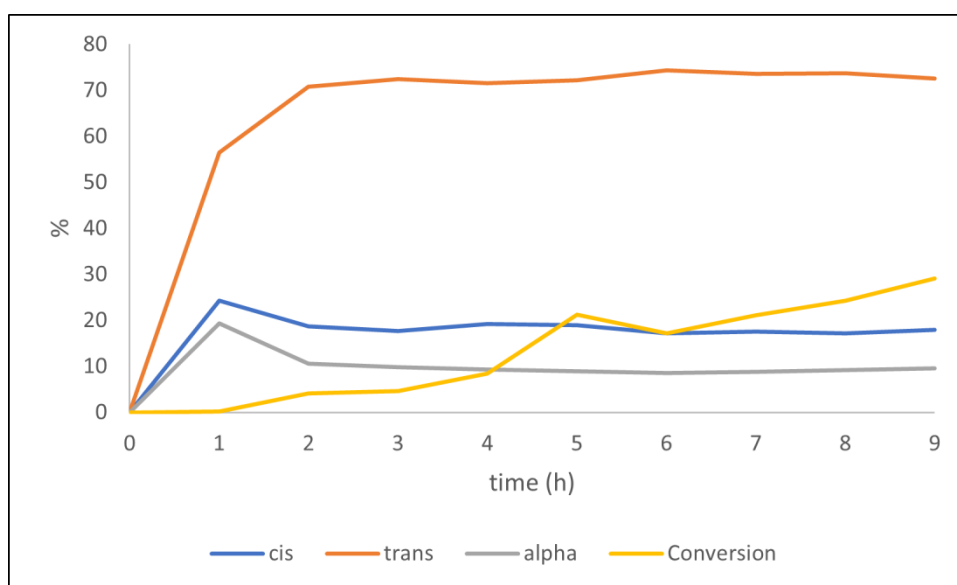


Figure S20. Hydrosilylation of 1-octyne under biphasic conditions.

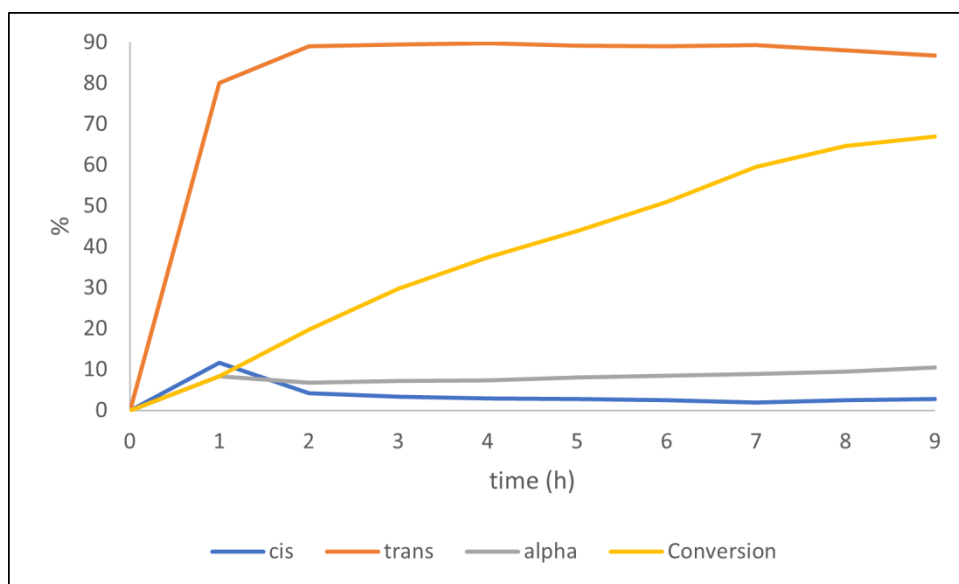


Figure S21. Hydrosilylation of 4-ethynyltoluene under biphasic conditions.

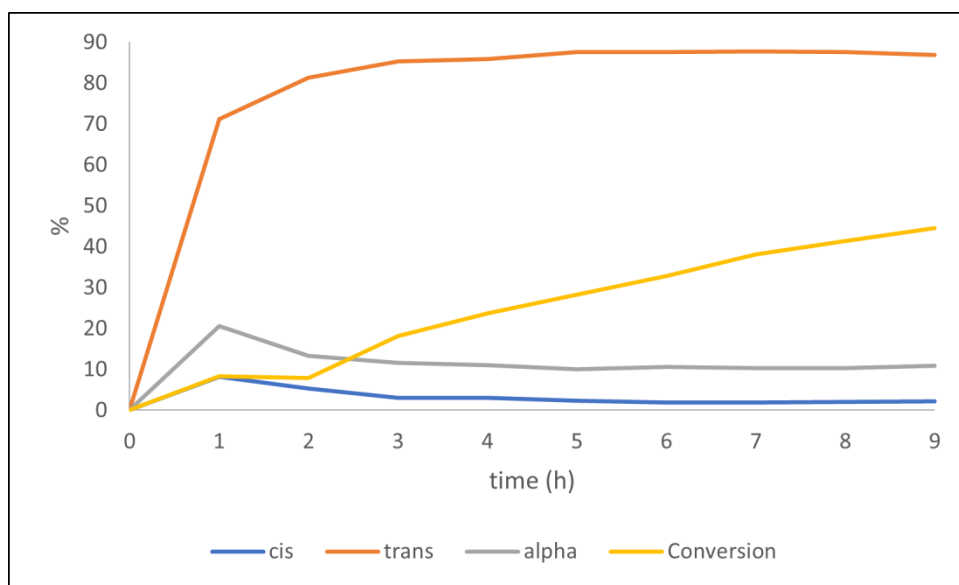


Figure S22. Hydrosilylation of phenylacetylene with HSiMe₂Ph under biphasic conditions.