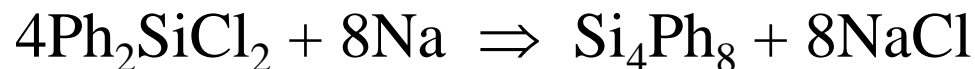


Si-Homocyclen

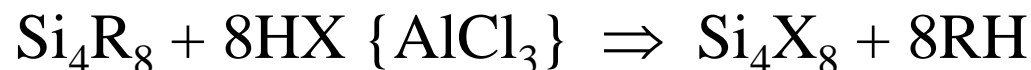
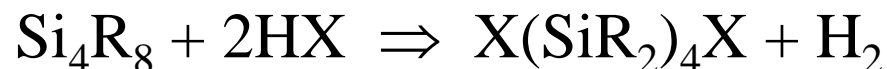
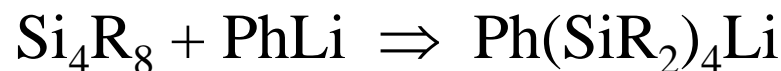
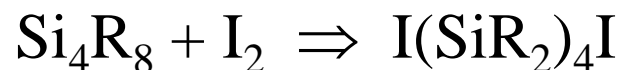
Si_4R_8 :

Si_4Ph_8 seit 1921 bekannt: farblose Kristalle, $F_p = 322^\circ\text{C}$

Darstellung:

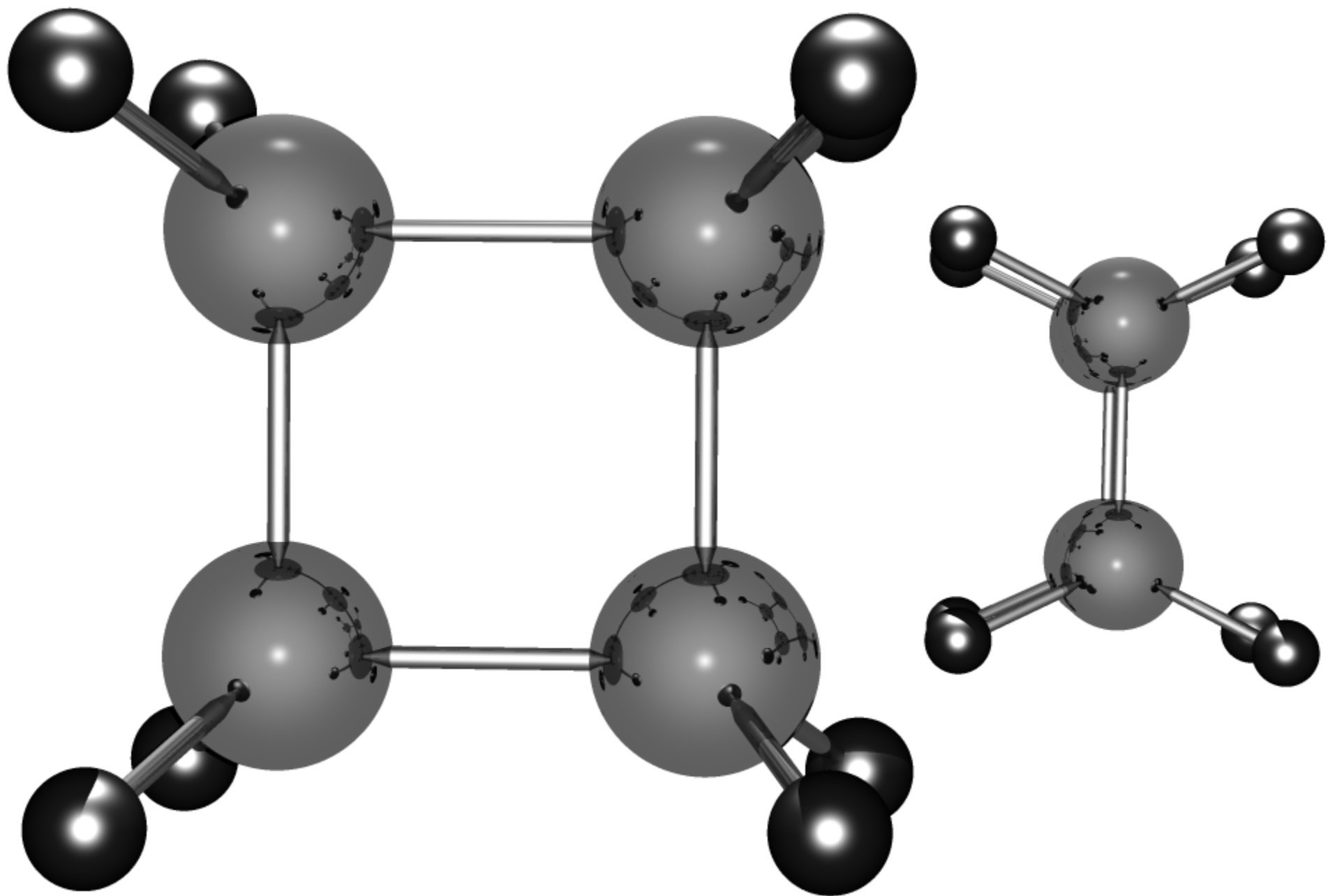


Reaktionen:

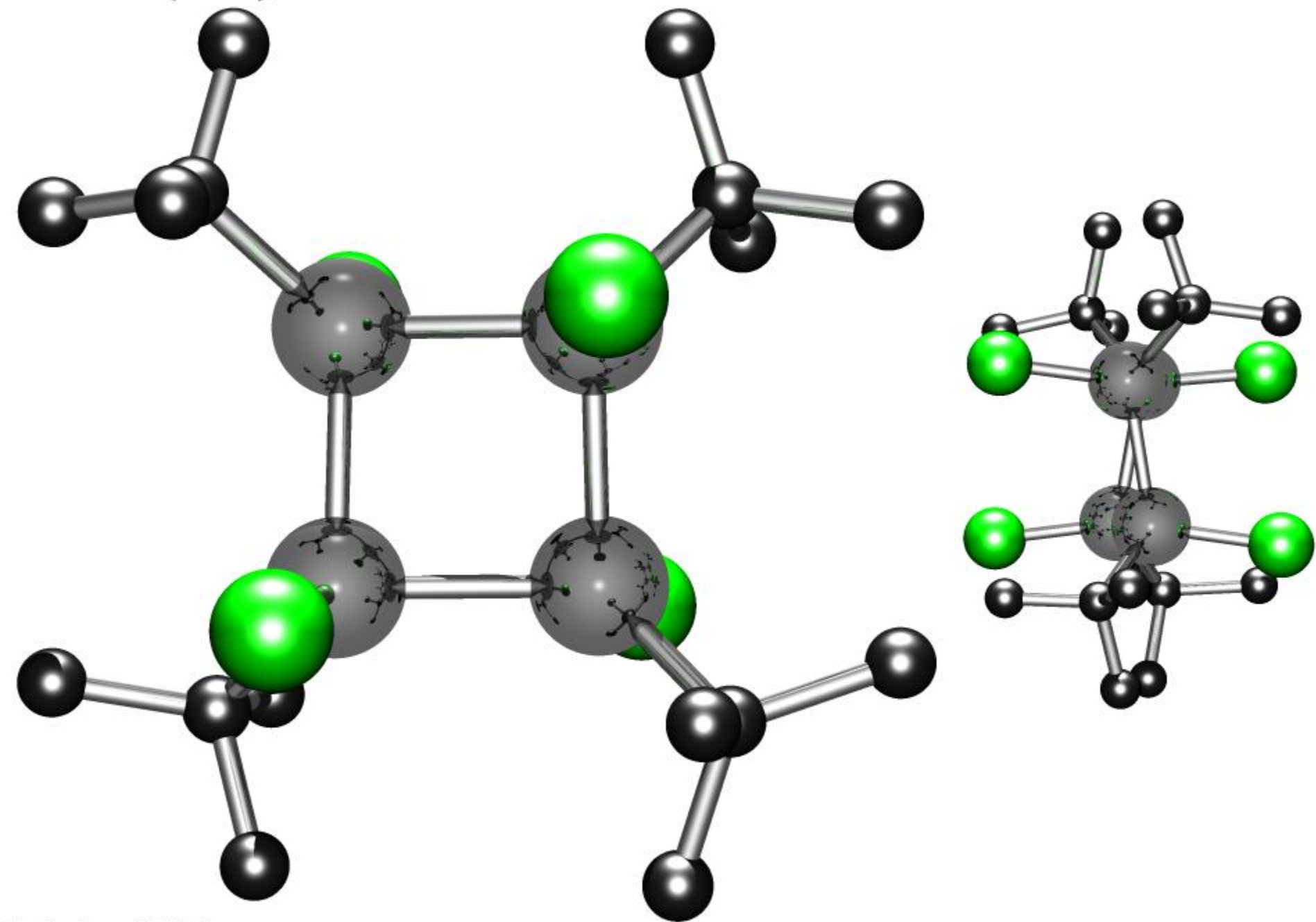


Si_4Me_8 : planarer Ring

Si₄ Me₈



Si₄ Cl₄ (t-Bu)₄



Si-Homocyclen

Si_4R_8 :



Darstellung von Si-Homo- und -Heterocyclen aus $\text{Li}(\text{SiPh}_2)_4\text{Li}$:



Si-Homocyclen

$\text{Si}_5\text{Ph}_{10}$:

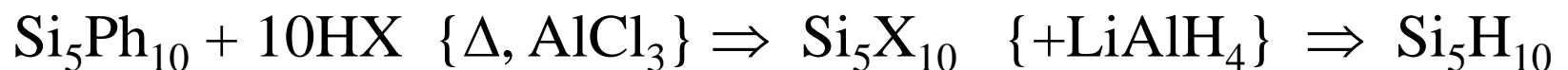
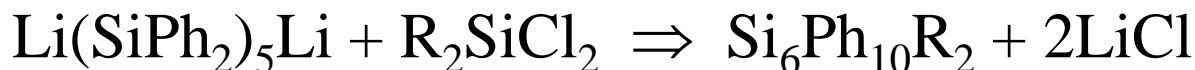
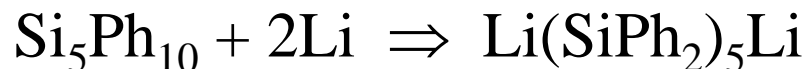
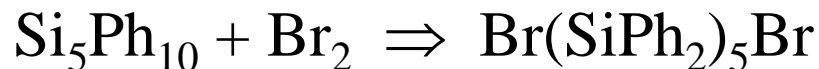
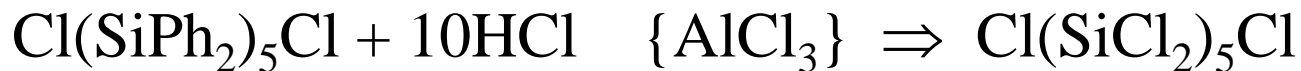
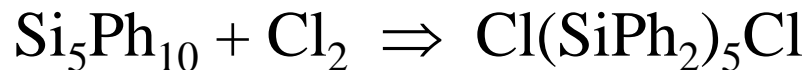
farblose Kristalle, $F_p = 474^\circ\text{C}$

bei RT keine Hydrolyse an der Luft, keine Reaktion mit H_2 oder HX

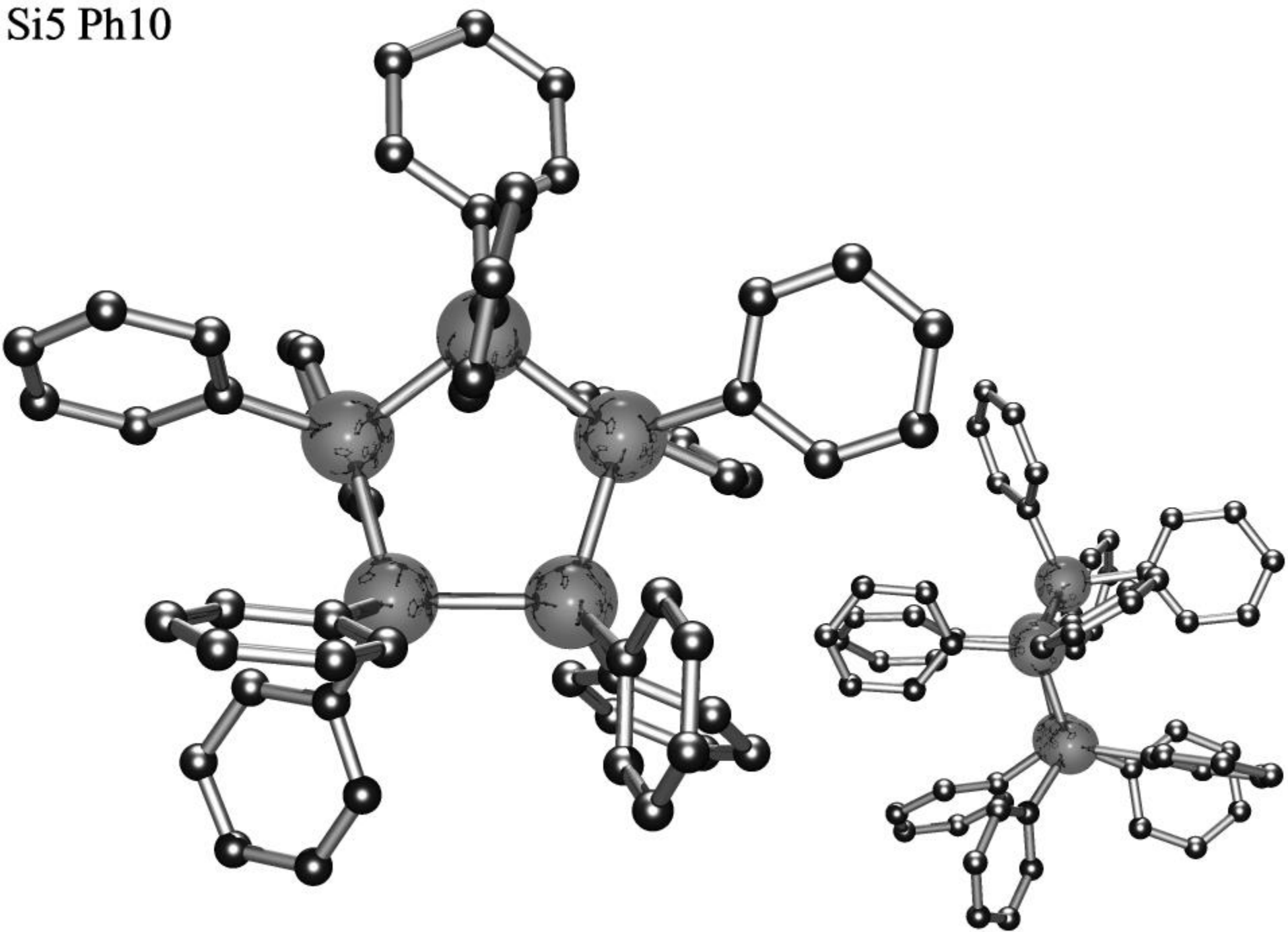
Darstellung:



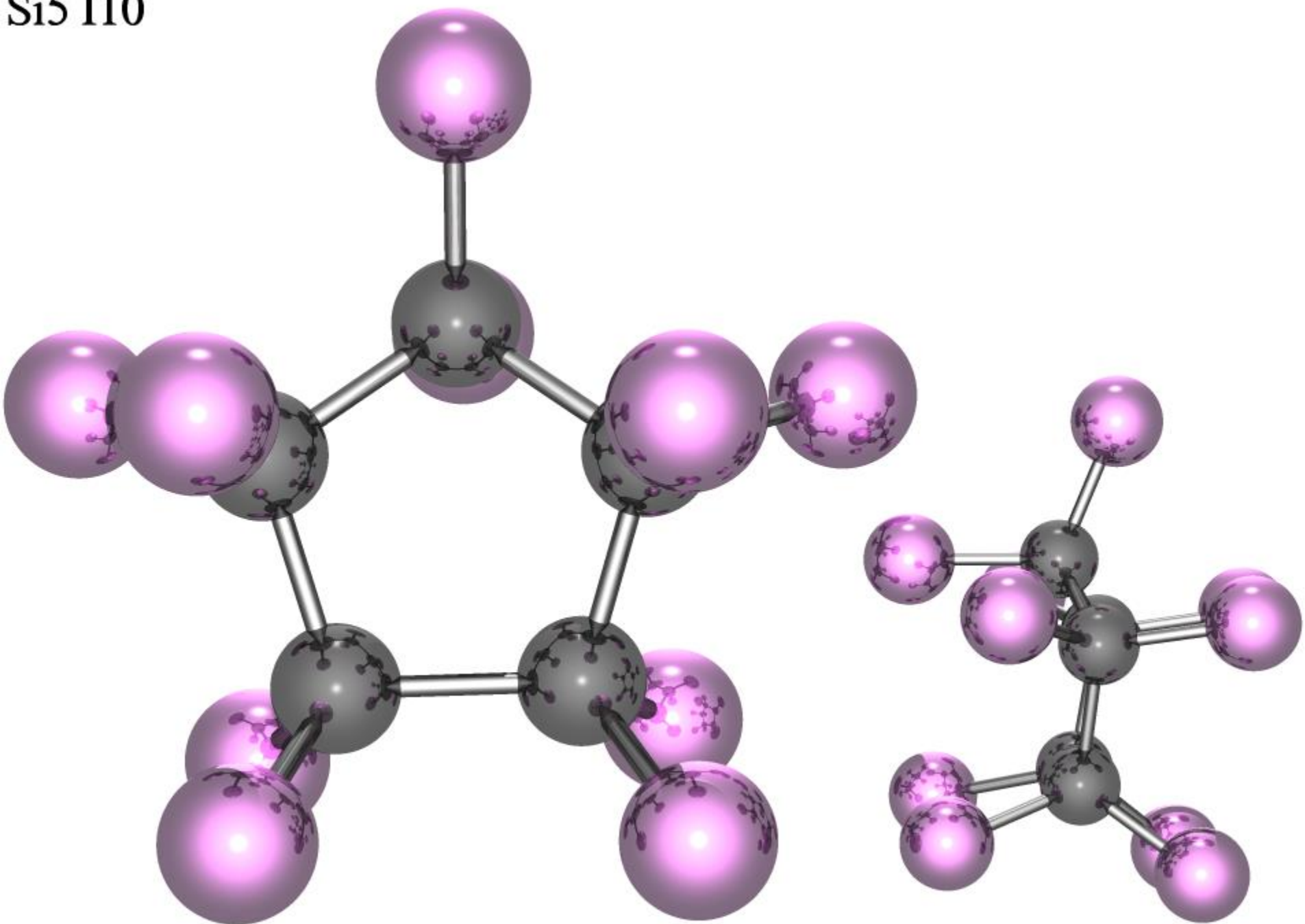
Reaktionen:



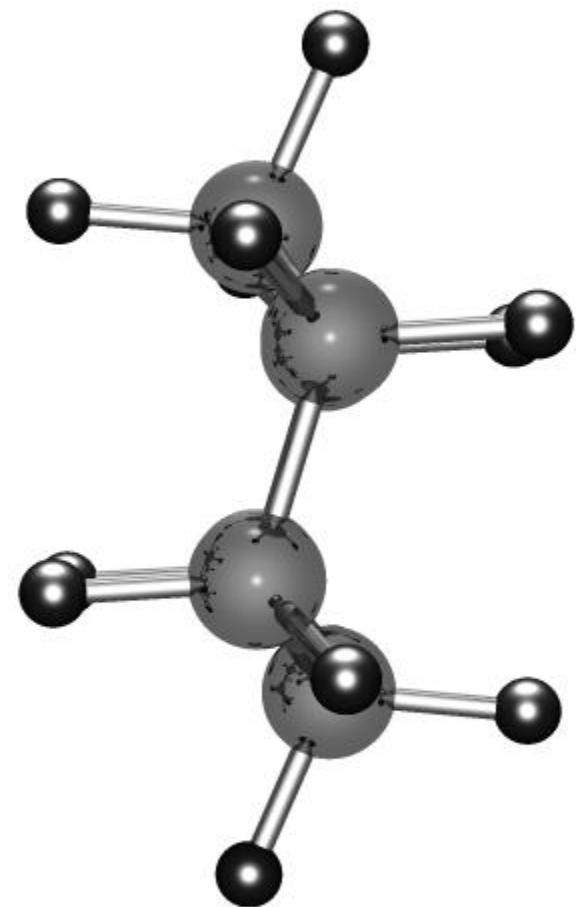
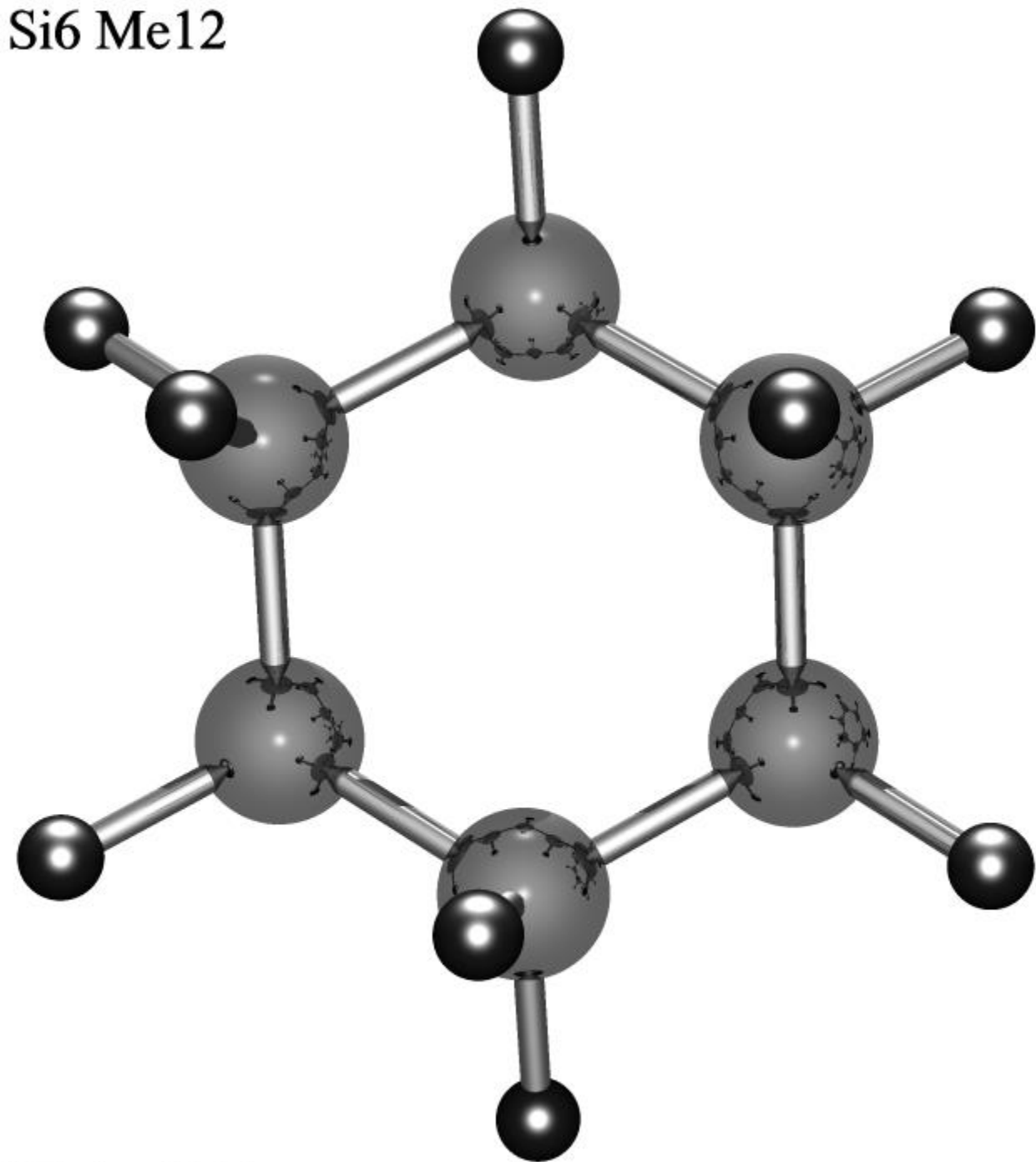
Si5 Ph10



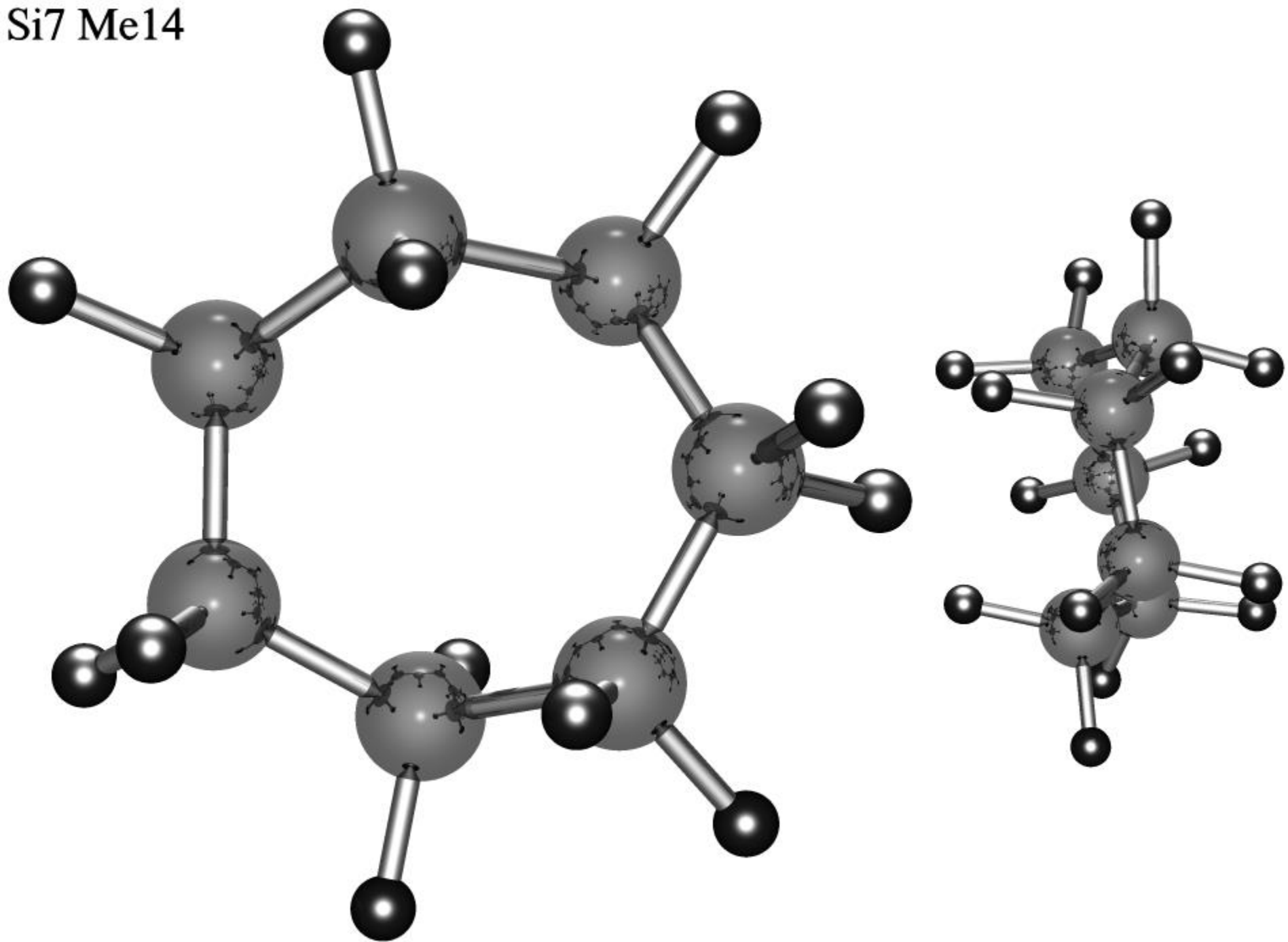
Si5 I10



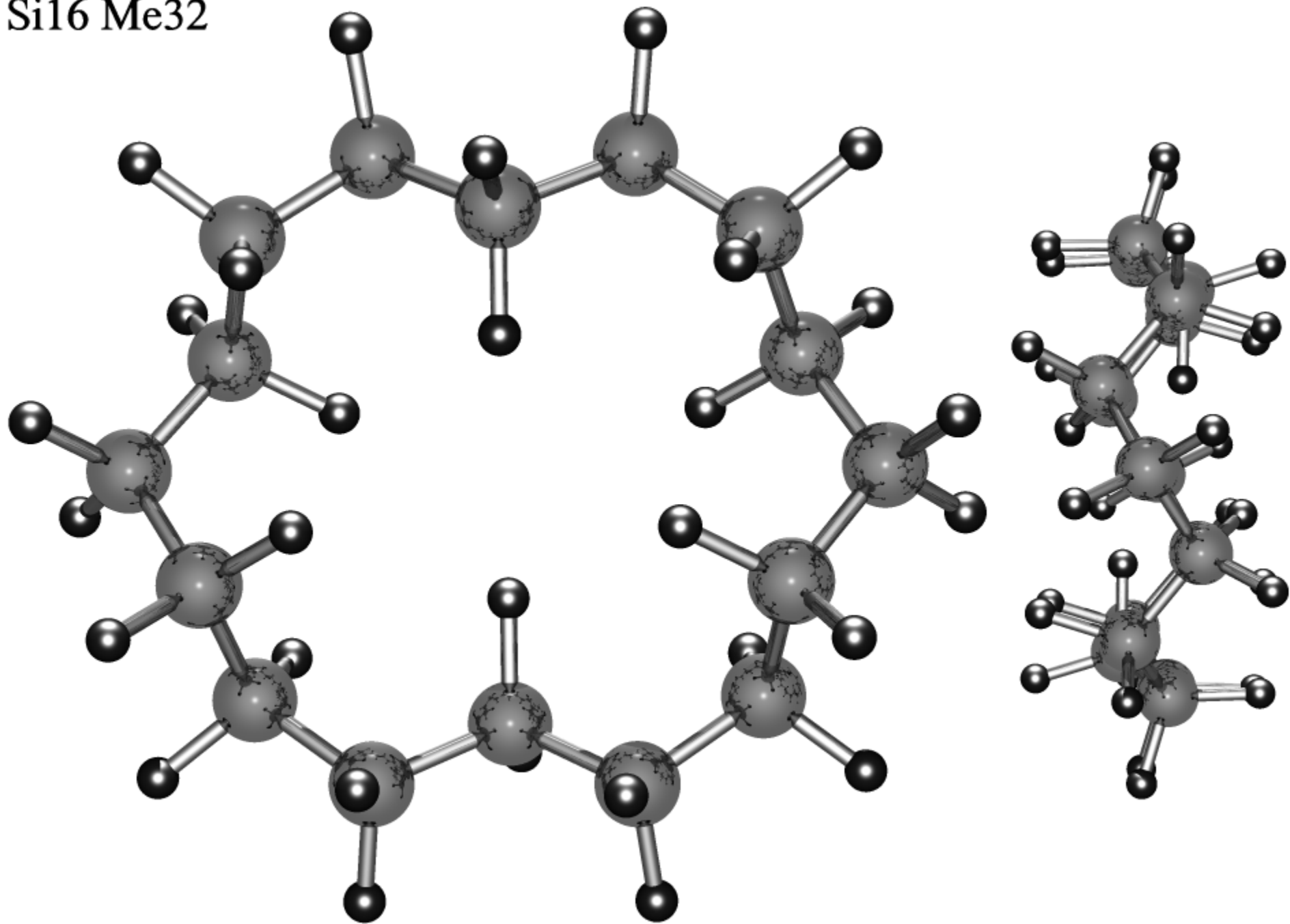
Si6 Me12



Si7 Me14



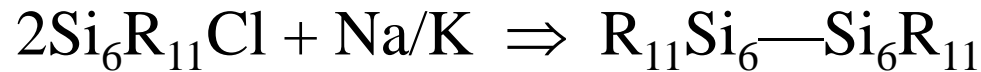
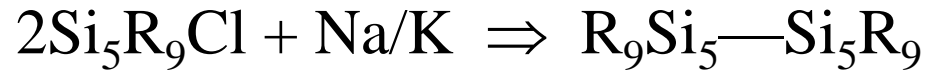
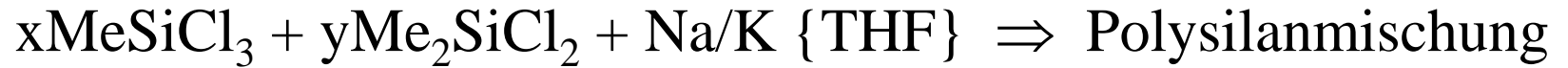
Si16 Me32



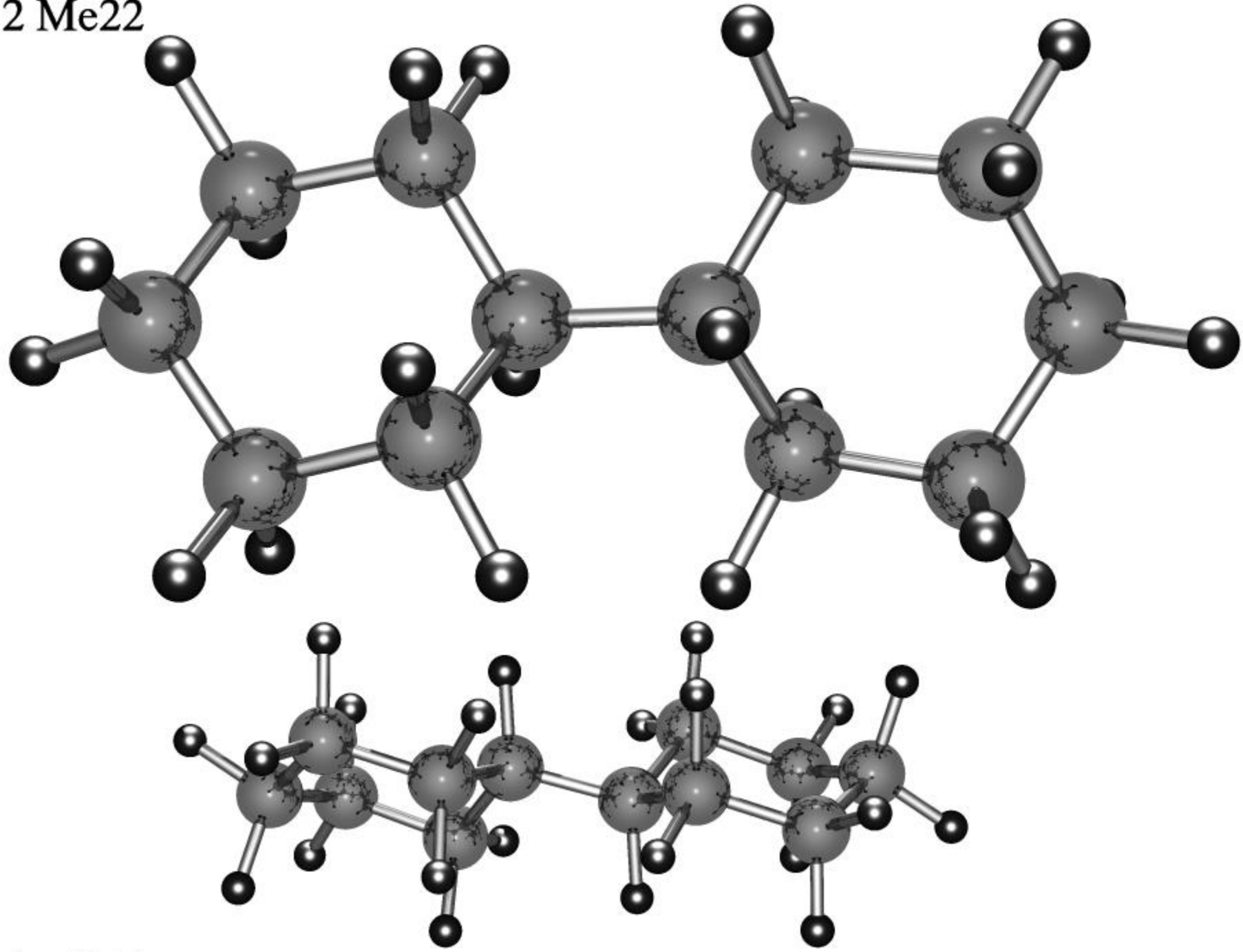
Si-Homocyclen

Polycyclische Silane:

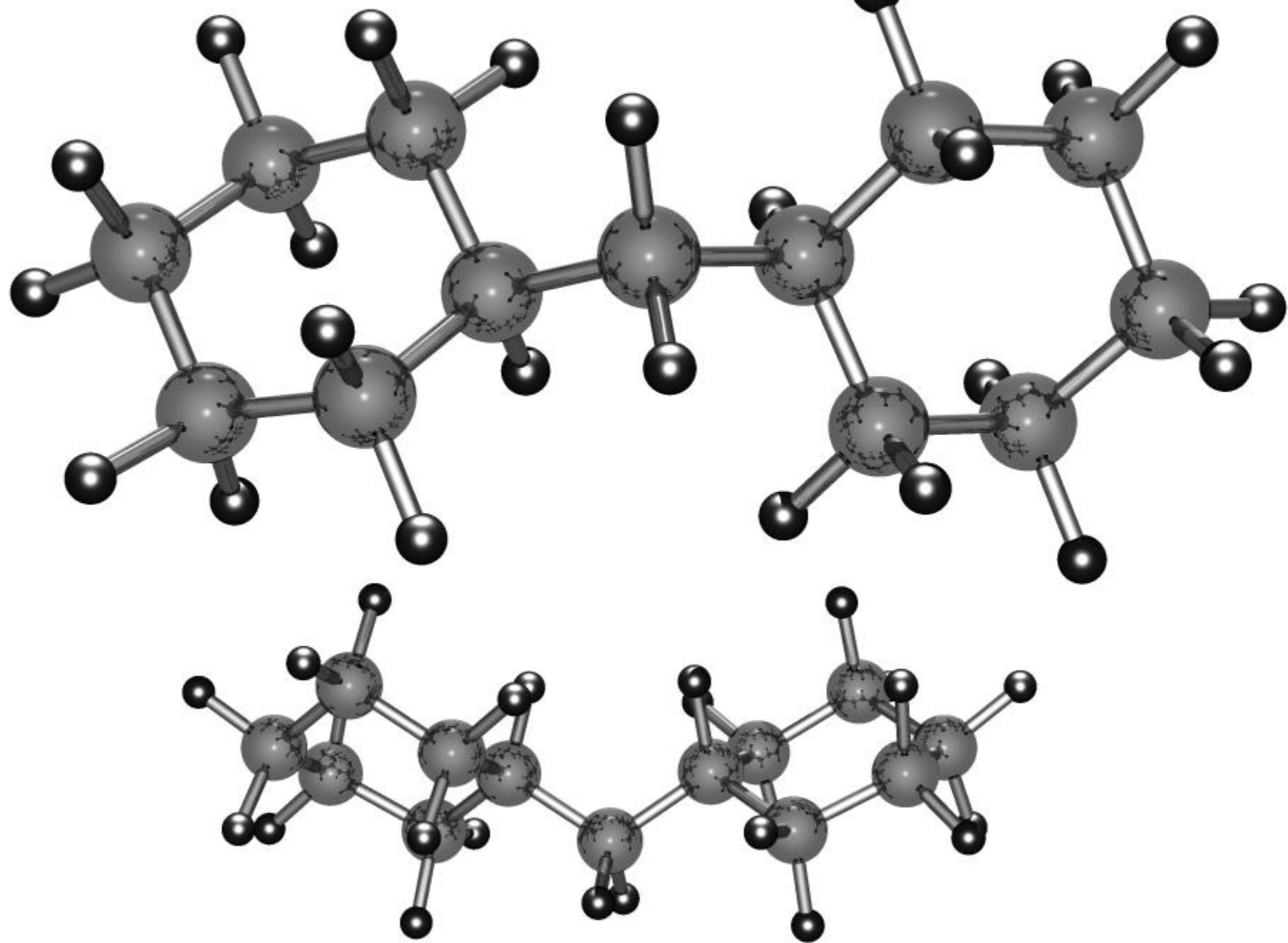
Darstellung:



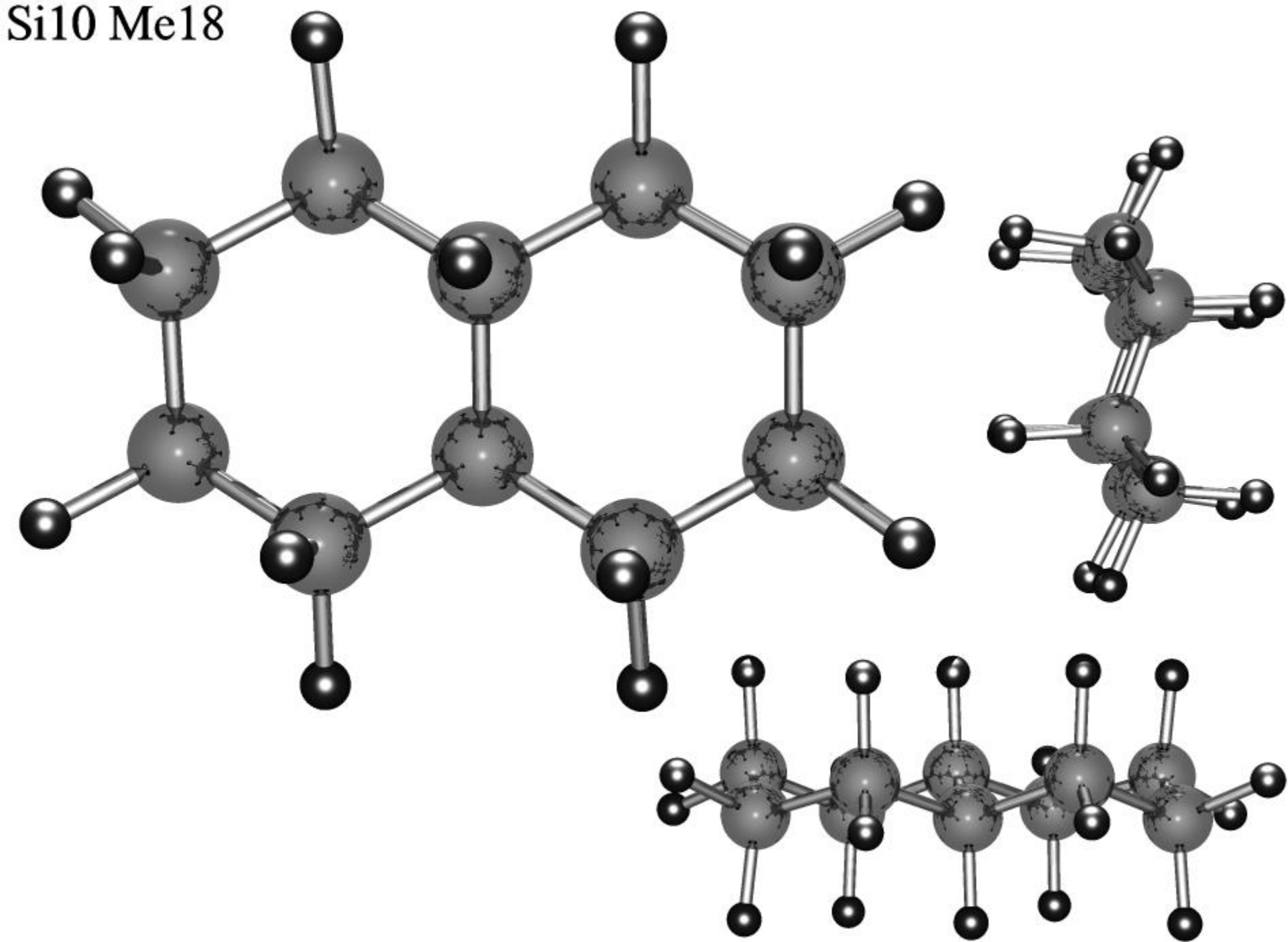
Si12 Me22



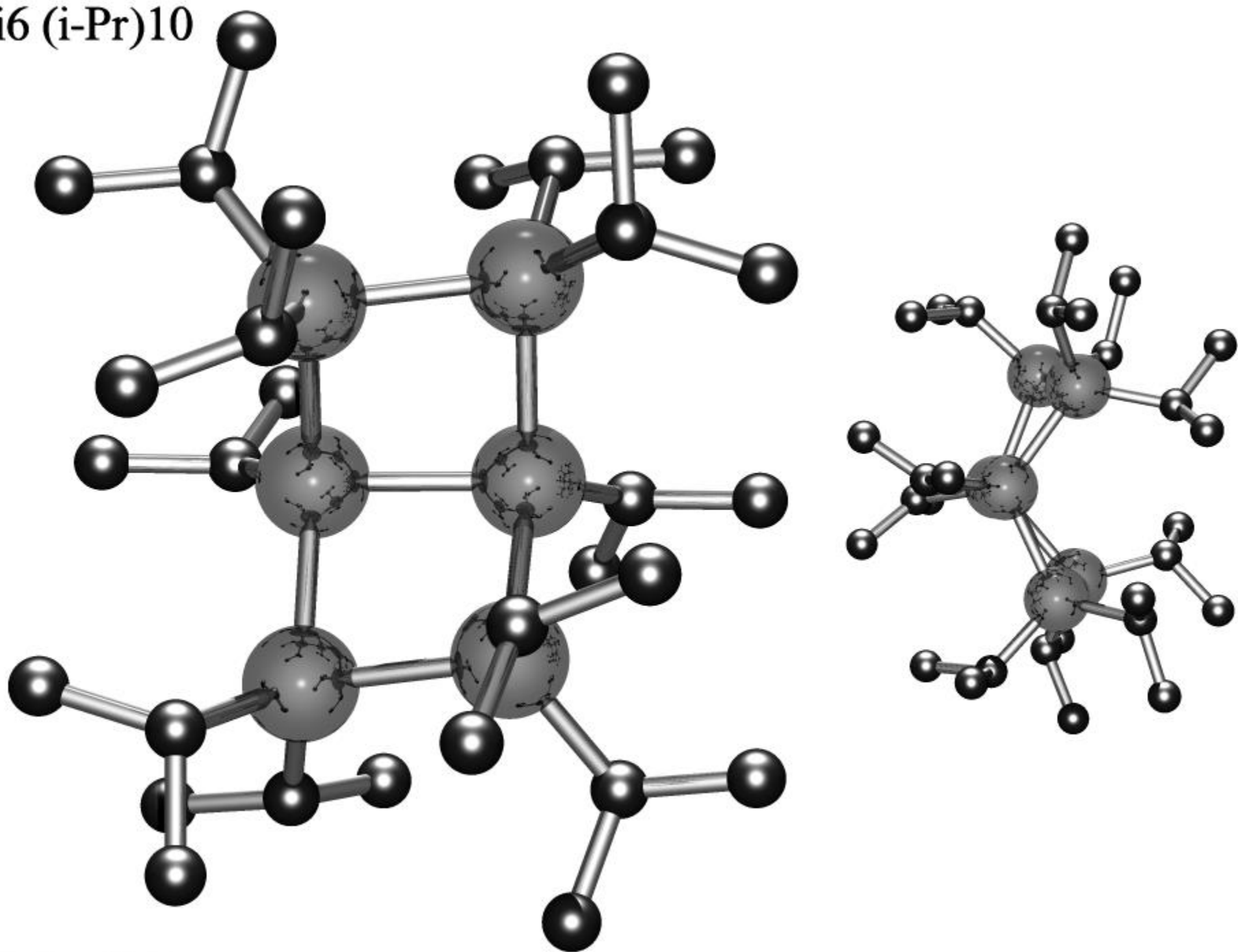
Si13 Me24



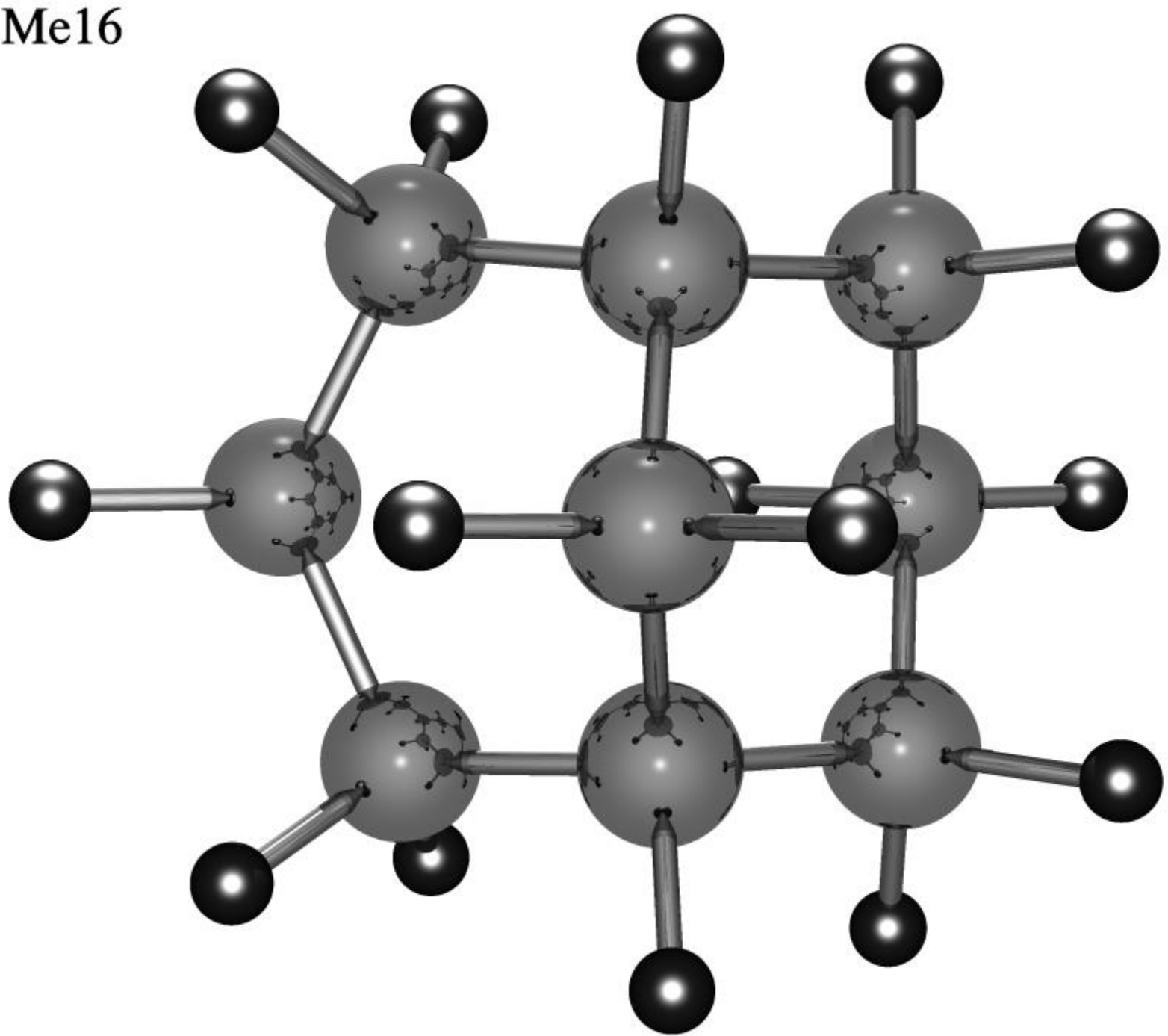
Si10 Me18



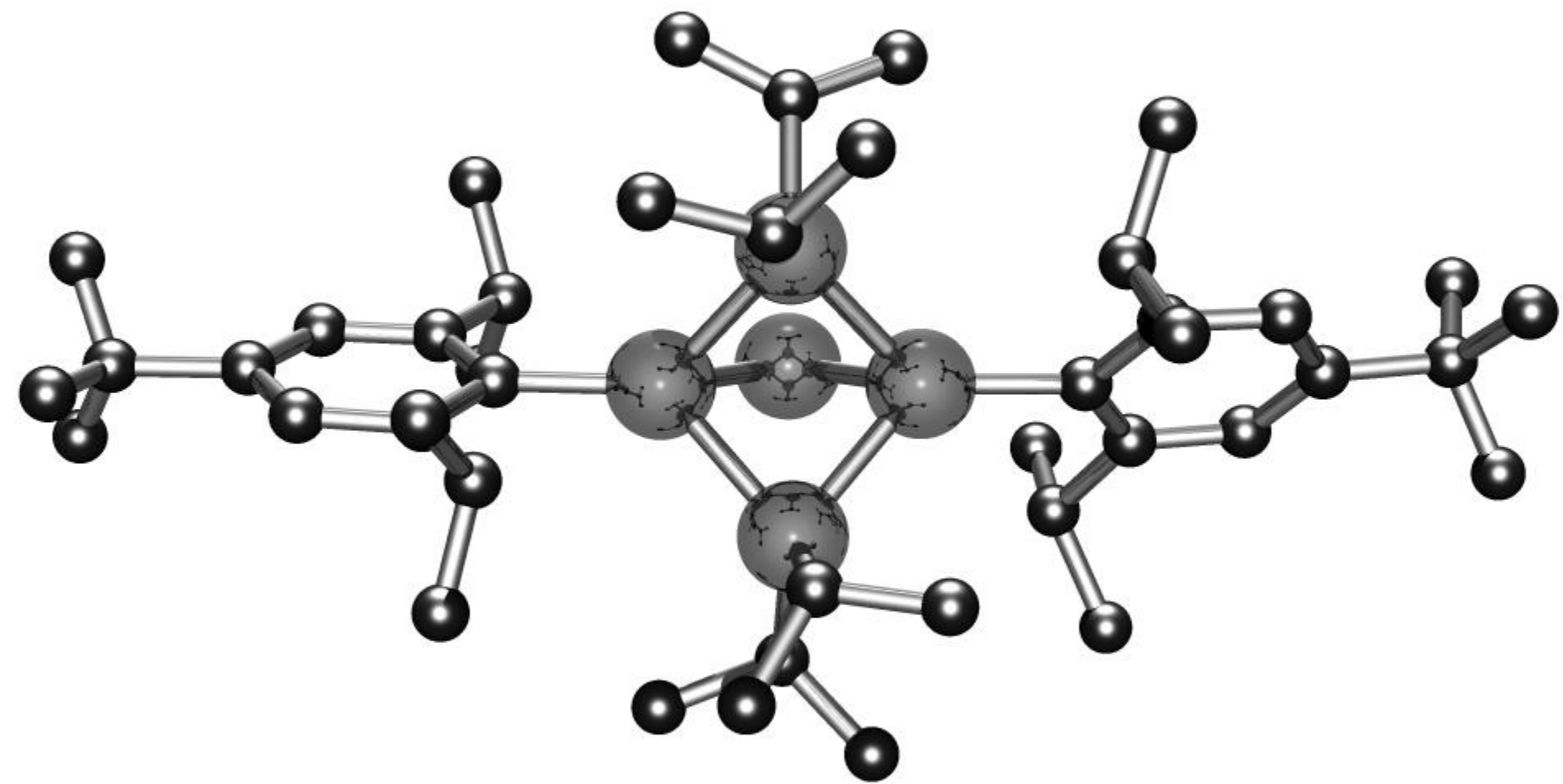
Si6 (i-Pr)10



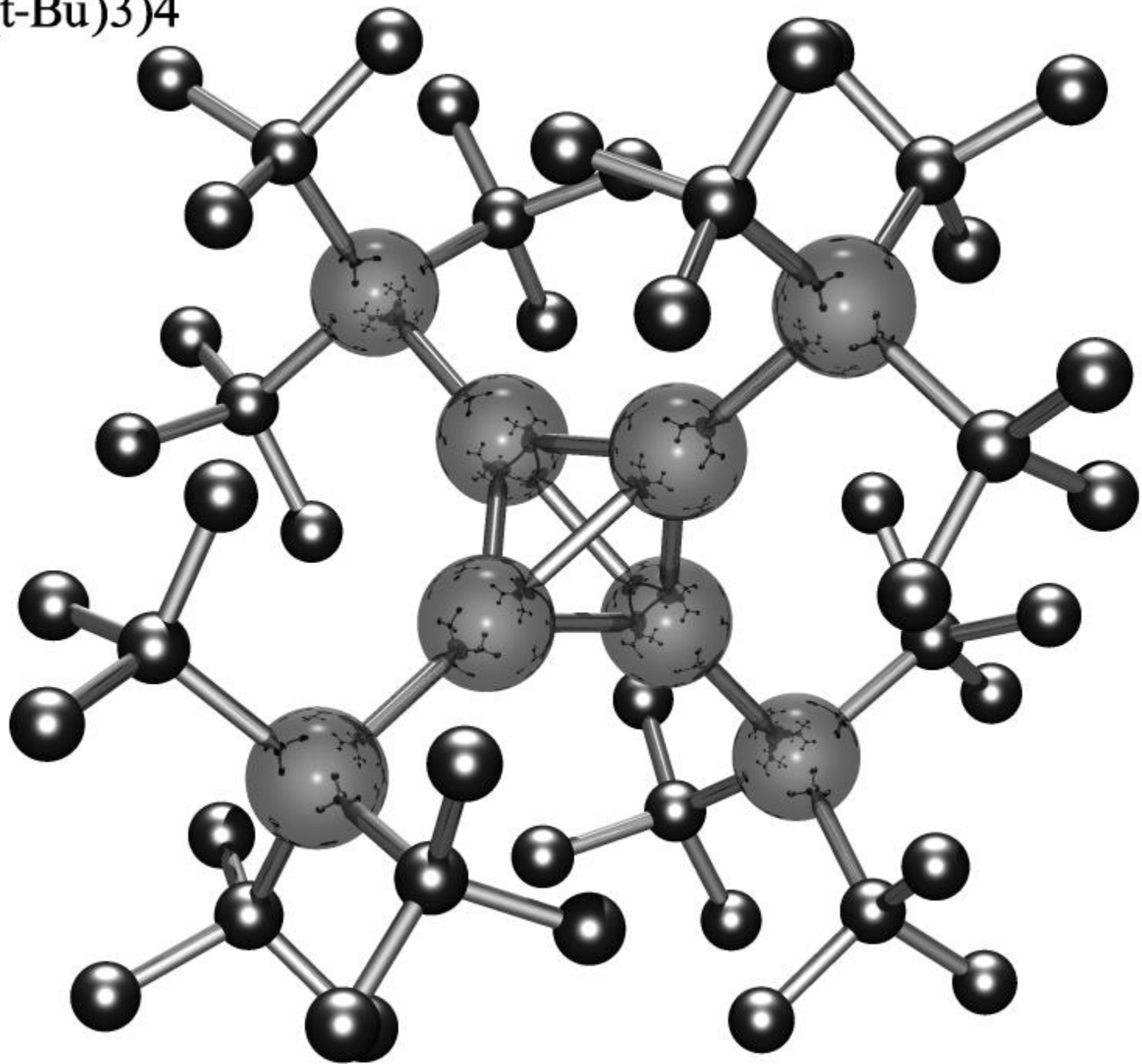
Si₉ Me₁₆



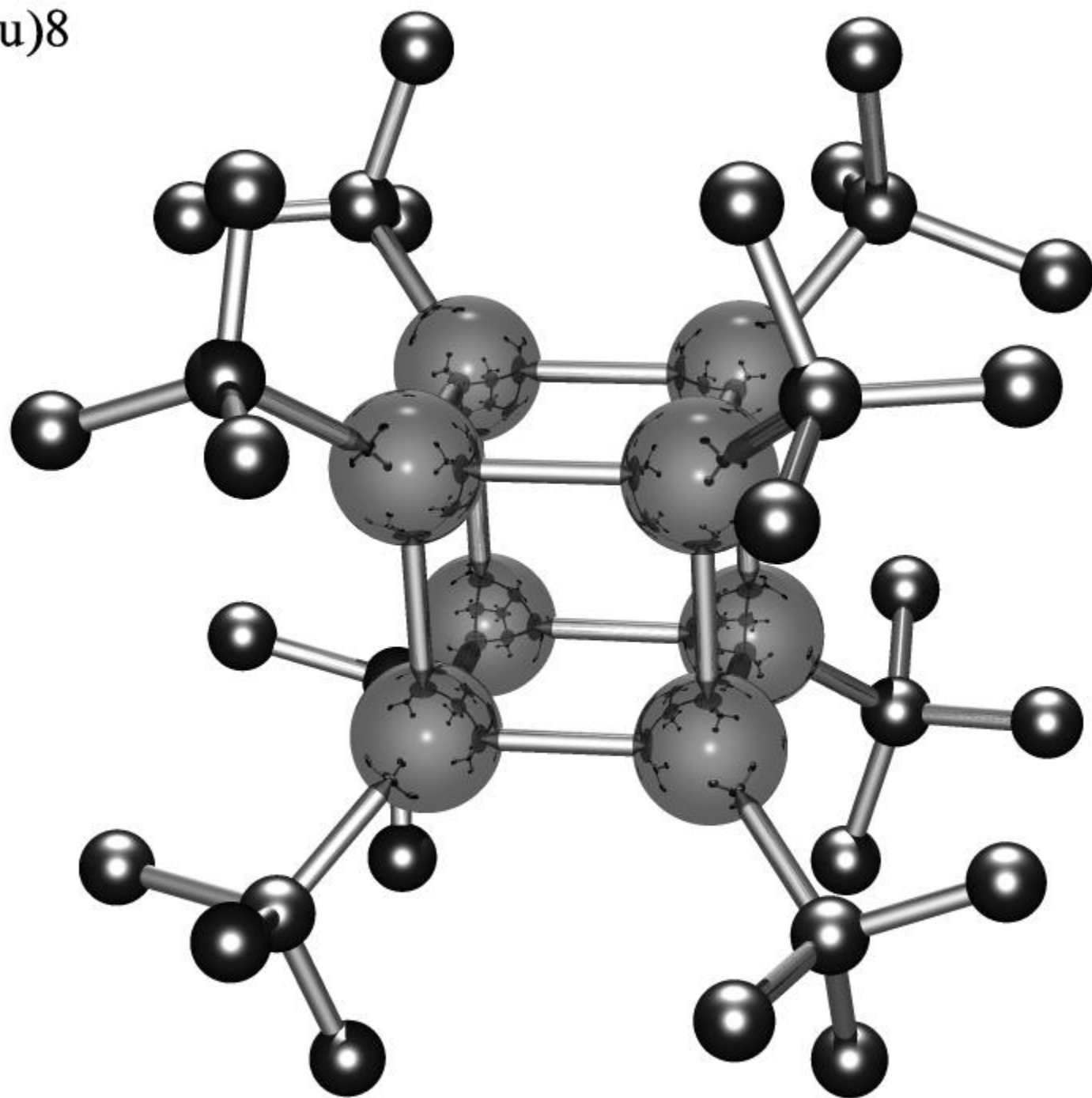
$\text{SiH}_2(\text{Si}(\text{i-Pr})_2)_2(\text{SiR}_2)_2$



$\text{Si}_4(\text{Si}(\text{t-Bu})_3)_4$



Si₈ (t-Bu)₈



Si₄ I₂ (Si(t-Bu)₃)₄

