

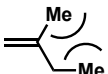


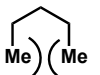


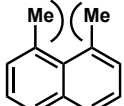


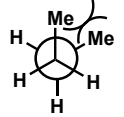


Bond lengths and interaction energies


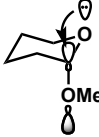

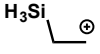

Bond lengths (Å):

$\sqrt{\text{C}-\text{C}}$	<u>1.54</u>	$\text{C}-\text{H}$	<u>1.1</u>
$\sqrt{\text{C}=\text{C}}$	<u>1.34</u>	$\text{H}-\text{H}$	<u>0.74</u>
$\text{C}=\text{O}$	<u>1.2</u>	$\text{F}-\text{F}$	<u>1.42</u>
$\text{C}\equiv\text{C}$	<u>1.2</u>	$\text{I}-\text{I}$	<u>2.67</u>

Strain energies (kcal/mol):

	<u>28</u>		<u>10</u>		<u>3</u>
	<u>26</u>		<u>13</u>		<u>3.7</u>
	<u>6</u>		<u>22</u>		<u>7.6</u>
	<u>0.1</u>		<u>3.9</u>		<u>0.9</u>

Stabilizing interaction energies (kcal/mol):

$\text{H}\cdots\text{X}$ (H-bond)	<u>~2-4</u>		<u>13</u>		<u>1</u>
	<u>27</u>		<u>38</u>		<u>36</u>
		<i>β-silicon effect</i>		(resonance energy)	