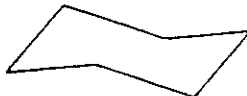



# Data Record

Table 49.2a Information on Molecular Models			
1 Methane		molecular formula _____	
Structural Formula	Sketch		
H—C—H angle? _____			
2 Ethane		molecular formula _____	
Structural Formula	Sketch		
Rotation around C—C bond? _____			
3 Propane		molecular formula _____	
Structural Formula	Sketch		
Other isomers? _____			
4 Butane		molecular formula _____	
Structural Formula	Sketch		
5 Pentane		molecular formula _____	
Structural Formulas	Sketch		
6 Cyclohexane		molecular formula _____	
Structural Formula	Sketch		
Conformations			
			
		Rotation around C—C bond? _____	

**Table 49.2b Information on Molecular Models**

<p>7. Ethane                      molecular formula _____</p> <p>Structural Formula              Sketch</p> <p>Rotation around C=C bond? _____</p>	<p>8. 1,2-Dichloroethene      molecular formula _____</p> <p>Structural Formula              Sketch</p> <p>   cis-</p> <p>   trans-</p>
<p>9. Butene                      molecular formula _____</p> <p>Structural Formulas      Structural isomers</p> <p>   Sketch</p> <p>Geometric Isomers              Sketch</p>	<p>10. Ethyne                      molecular formula _____</p> <p>Structural Formula              Sketch</p> <p>Shape? _____</p> <p>Rotation around C≡C bond? _____</p> <p>11. Benzene                      molecular formula _____</p> <p>Structural Formula              Sketch</p> <p>Is the molecule planar? _____</p> <p>Chair and boat conformations? _____</p>