



671-2119 Sucrose Molecule

Sucrose is a very sweet sugar. In fact, when people refer to ‘sugar’, they are most commonly referring to sucrose. White table sugar is pure sucrose. This particular sugar is very sweet, and is used to sweeten foods and drinks. It is easily metabolized by the body, meaning that it can be digested. Sucrose contains many calories and is unhealthy in large quantities. Sucrose can be made from sugar cane or sugar beets. The colonization of the new world was driven initially by the sugar trade, as the West Indies possessed a perfect climate to produce sugarcane in huge quantities. Prior to these plantations, sugar was a rare and expensive delicacy.

The chemical formula for sucrose is $C_{12}H_{22}O_{11}$. The carbon atoms form a sort of ‘skeleton’, while the oxygen and hydrogen atoms form the rest of the molecule. All sugars use the same basic elements, but differ in quantity and structure. It is these differences that change the properties of different types of sugar.

This particular molecule is easy to assemble.

To assemble your molecule, notice the holes on each particular atom. Press a connector firmly into this hole until it is flush with the surface of the atom. The connection should be firm but still easy to disassemble. Your molecule can be put together and taken apart as many times as you wish.

Warranty and Parts:

We replace all defective or missing parts free of charge. Additional replacement parts may be ordered toll-free. We accept MasterCard, Visa, checks and School P.O.s. All products warranted to be free from defect for 90 days. Does not apply to accident, misuse or normal wear and tear. Intended for children 13 years of age and up. This item is not a toy. It may contain small parts that can be choking hazards. Adult supervision is required.