

Food Science Rock Candy Lab

Sugar is one of the most common energy-producing nutrient. Sugar has many properties, but there are 4 main properties that are easy to understand which are sweetness, caramelization, solubility, and crystallization. Sweetness is one the most obvious properties, different type of sugars have different range of sweetness. According to Mehas & Rodgers (2006), the sweetness is order from highest to lowest, fructose, sucrose, glucose, galactose, maltose, and lactose, respectively. The reason that different types of sugar have different sweetness is because their molecules fit human's taste bud sites differently. However, there are several factors that effect sweetness such as concentration, consistency, temperature, and pH level.

"Caramelization, the browning reaction that can occur with any kind of sugar" (Mehas & Rodgers, 2006, page 223) It is the interaction between sugar and sugar. Sucrose is broken down into glucose and fructose. This property is a non-enzymatic browning reaction (Mehas & Rodgers, 2006) There are two major types of non-enzymatic browning reaction which are caramelization, and Maillard browning. (Nonenzymatic Browning Food Chemistry 45300, n.d.) Caramelization occurs when carbohydrates and sugars are heated and water is removed. The heat that is required in this process depends on the type of sugar. For example, sucrose and glucose need around 160 degree celsius or 320 Fahrenheit in order to caramelize while fructose caramelizes at 110 degree celsius or 230 Fahrenheit. (What is Caramelization?, n.d.) Caramelization changes the color as well as the flavor. Maillard browning is another type of browning reaction but this one is a reaction between an amino acid and reducing sugar (Why Food Browns?, n.d.) The reducing sugar is a sugar which has an OH group attached on the anomeric carbon or the first carbon of the molecule. (Foist, n.d.) In other words, both caramelization and Maillard browning require heat but enzyme to break down different things. Sugars in caramelization while amino acid and reducing sugar in Maillard browning.

The third property of sugar is solubility. It is obvious that sugar can dissolve with water. According to Mehas & Rodgers (2006), the reason is sugars have many hydroxyl groups which form hydrogen bond with water molecule. The solubility of different sugars is not the same. Fructose which has the highest sweetness also has the best solubility while lactose which has the lowest sweetness also has the worst solubility. The solubility varies according to the sweetness. Sugars can dissolve in water until they are saturated. When they reach the saturate point, they will not be able to dissolve in water anymore, this is called "saturated solution" According to Husband (2014) "The number of sucrose molecules leaving the crystals is the same as the number of sucrose molecules joining the crystals. This is what happens when the solution is saturated" (paragraph 10) However, if the heat is added into the solution enough, the solution will slowly turn into "supersaturated solution" where sugars can be dissolved more, but it is an unstable solution which means it contains too much solute than they can bare.

When the supersaturated solution is occurred, sugar molecules are in between the water molecules. When the temperature decreases to normal. The sugar molecules are starting to comes

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