

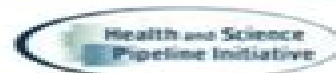
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Determining Bonding Types

HASPI Medical Chemistry Lab

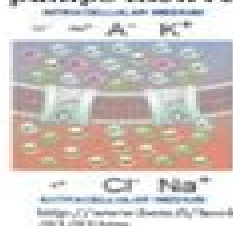


Background/Introduction

Electrolytes

How do you feel? No, really, how is it that when you touch something your brain immediately knows something about it? The texture, the temperature, even the size without even looking at it?

This is due to electrical impulses that pass through your body, known as an action potential. This works because your neurons are full of electrolytes. Electrolytes are any ion that dissociates in water, allowing the solution to conduct electricity. Sodium, chloride, potassium and calcium ions are all essential parts of this process. All along the neuron, specific electrolytes are pumped on to either side of the cell membrane, and to send a signal, electrolytes rush across the membrane, allowing the signal to move. The ion pumps then re-set these ions so that the next signal can be sent.

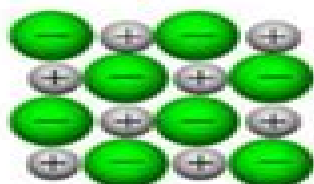


When you are low in electrolytes your body can't communicate with your brain as well and your muscles may cramp. You may feel more fatigue when you are low on electrolytes. You might even crave salty foods, because table salt contains sodium ions, which are a key component needed for nerve signals. Your sweat is full of electrolytes, which is why you need to drink fluids rich in potassium, calcium and sodium when you work out. Sports drinks also contain large amounts of sugar to help give you extra energy when you drink them.

When a patient has diarrhea, one of the key things they lose is electrolytes. For this reason, it is important to drink more than plain water when you have diarrhea, because you need to replace your electrolytes to keep you strong. You also need to have electrolytes to help you absorb water because your body absorbs water through osmosis, which means that water follows the electrolytes. Pediatricians recommend that kids drink Pedialyte when they are sick so that they get the right mix of electrolytes in their liquids, but this works for any age. If you don't have Pedialyte then you can use Gatorade or another sports drink, however the large amount of sugar is not always a good idea when you're sick, so drink sports drinks in moderation or pick up some Pedialyte liquid or freezer pops!



<http://www.pedialyte.com>



http://www.bbc.com/science/health/2012/01/120101_ionic_bonding.shtml

The Chemistry

Ionic, Covalent & Metallic compounds each have physical properties that relate to their structures, so there are some tests we can do to help identify the type of bonding in a substance.

Melting Points

An ionic bond is made when ions of opposite charges come together to create a crystal lattice structure. In order to melt an ionic compound the temperature has to rise until the ions move with enough force to break away from the oppositely

Determining Bonding Types Lab Answers

Michal Rosen-Zvi



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web the ballistic pendulum physics 110 laboratory in this experiment you will determine the muzzle velocity of a gun using two different methods the first method consists of firing a ball horizontally from the tabletop by measuring the range of the ball in the second part of the experiment the ball will be fired into the ballistic pendulum shown above and

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web experiment 8 ballistic pendulum objective to use a ballistic pendulum to determine the velocity of a projectile to verify this velocity by measuring the range of the projectile experiment we use measurements obtained from a ballistic pendulum to review energy conservation momentum conservation and projectile motion

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web abstract in this experiment we measured g by measuring the period of a pendulum of a known length we measured $g = 7.650378 \text{ m/s}^2$ this corresponds to a relative difference of 22.22% with the accepted value 9.8 m/s^2 and our result is not consistent with the accepted value

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web lab 10 ballistic pendulum goals to determine the launch speed of a steel ball for the short medium and long range settings on the projectile launcher apparatus using the equations for projectile motion

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web experiment 7 ballistic pendulum physic 181 april 15 2021 purpose the overall purpose of this experiment was to do observation and find the solution of whether the initial and final momentum of the object is zero when comparing this was

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web the ballistic pendulum measures the velocity of projectiles through the conservation of linear momentum and mechanical energy in this experiment we can determine the initial velocities of the projectile motion by measuring the distance on which the center of mass of the projectile rises through the law of conservation of linear momentum and

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web to obtain the velocity of a projectile using a ballistic pendulum the length of the pendulum had to be measured as well as the mass of the pendulum projectile and the pendulum swing angle there were two methods used to complete this experiment and obtain the value of the velocity

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web experimental technique 1 use foam to set up a trap to catch the projectile see image 1 2 set up the pendulum and projectile launcher with the rotary motion sensor see image 2 3 3 measure the mass of the pendulum and the projectile as well as the length of the pendulum 4 prepare data studio for the experiment 5

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