

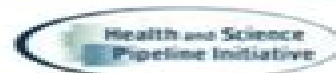
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Determining Bonding Types

HASPI Medical Chemistry Lab

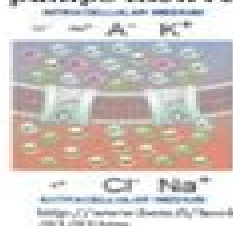


Background/Introduction

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.

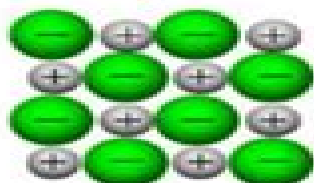


When you are low in electrolytes your body can't communicate with your brain as well and your muscles may cramp. You may feel more fatigue when you are low on electrolytes. You might even crave salty foods, because table salt contains sodium ions, which are a key component needed for nerve signals. Your 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

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