

Science Lab Write-Up

WARNING — This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

(The chemicals used in this activity are salt and sodium carbonate.)

Ionic and Covalent Compounds

Name of Substance	Did it melt?	Did it dissolve in water?	Did it conduct electricity?
Butter	Yes	No	No
Wax	Yes, softened	No	No
Sodium chloride	No	Yes	Yes
Sodium carbonate	No	Yes	Yes

6. Which substances are covalent compounds? Which are ionic compounds? How do you know?

Sodium carbonate and sodium chloride are both ionic bonds. I know this because it conducted electricity. I also know they're ionic bonds because they dissolved in water. They're ionic bonds because they didn't melt because they're melting point is higher. Butter and wax are both covalent bonds. I know this because it didn't conduct electricity and it didn't dissolve in water. I also know it was covalent because it melted, it has a very low melting point.