

Name _____

The Magical World of Ionic Compounds: Exploring the Properties of Salts

Short Answer Key

1. One example of an ionic compound is sodium chloride (NaCl), which forms when sodium (Na^+) ions donate an electron to chloride (Cl^-) ions.
2. Ionic compounds dissolve in water because water molecules surround and pull apart the ions due to their charges.
3. Ions in ionic compounds can conduct electricity when dissolved because they are free to move and carry electric charges.
4. Copper sulfate (CuSO_4) is blue because when light interacts with the electrons in copper ions (Cu^{2+}), it absorbs certain wavelengths and reflects blue light.
5. Common uses of saltwater include cooking (seasoning), making brine for preserving food, and desalination for producing freshwater.

