

Ionic Bonds Quiz PDF

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Which of the following is a characteristic of ionic compounds?
 Low melting points High melting points Poor electrical conductivity in solution Covalent bonding
What is the charge on a sulfate ion (SO ₄ ²)?
○ -1○ -2○ +1○ +2
What happens to the electrons in an ionic bond?
 They are shared equally They are shared unequally They are transferred from one atom to another They remain unchanged
Which type of elements typically form cations in ionic bonds?
Non-metalsMetalloidsMetalsNoble gases
What is an ionic bond?
A bond formed by sharing electronsA bond formed by transferring electrons

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A bond formed by sharing protonsA bond formed by transferring protons
What is the primary driving force for the formation of ionic bonds?
 Increase in potential energy Decrease in kinetic energy Attainment of a stable electron configuration Increase in entropy
Which of the following compounds contain polyatomic ions?
 NaCl KNO₃ CaCO₃ H₂O
Which elements are likely to form anions in ionic bonds?
□ Oxygen□ Sodium□ Chlorine□ Magnesium
What factors contribute to the strength of an ionic bond?
 □ Lattice energy □ Electronegativity difference □ Atomic size □ Number of protons
In which states do ionic compounds conduct electricity?
☐ Solid state☐ Liquid state☐ Aqueous solution☐ Gaseous state

Explain why ionic compounds tend to have high melting and boiling points.



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Describe the process of electron transfer in the formation of an ionic bond between sodium and chlorine.	
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What is lattice energy, and how does it relate to the stability of ionic compounds?	
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Compare and contrast ionic bonds and covalent bonds in terms of electron movement and type	s of
elements involved.	
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Why do ionic compounds conduct electricity in aqueous solutions but not in solid form?



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Discuss the role of electronegativity in the formation of ionic bonds.	
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Which of the following compounds is an example of an ionic compound?	
\bigcirc H ₂ O	
\bigcirc CO $_{_2}$	
○ NaCl	
○ CH ₄	
Which of the following best describes the structure of ionic compounds?	
○ Amorphous solids	
○ Crystaline solids	
Gaseous at room temperature	
Liquid at room temperature	
Which of the following are properties of ionic compounds?	
☐ High melting points	
Conduct electricity when dissolved in water	
brittle	
Low solubility in water	

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Which of the following statements about ionic bonds are true?



☐ They involve the sharing of electrons.	
☐ They form between metals and non-metals.	
☐ They result in the formation of ions.	
☐ They have low lattice energy.	

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