

7 The boiling point of water, H_2O , is higher than that of hydrogen sulfide, H_2S .

Which statement explains this difference in boiling points?

- A The bond energy of O–H is greater than the bond energy of S–H.
- B The intermolecular forces in H_2O are weaker than the intermolecular forces in H_2S .
- C The S–H bond in H_2S is longer than the O–H bond in H_2O .
- D There is significant intermolecular hydrogen bonding in H_2O but **not** in H_2S .