## TOPIC

Chemistry - Section III - Question 5

## QUESTION

The boiling point elevation constant for water is  $K_{bp} = 0.52^{\circ}C/molal$ . If the normal boiling point of water is  $100^{\circ}C$ , the normal boiling point (in  $^{\circ}C$ ) of water containing 1 % by weight NaCl (assume NaCl is completely dissociated) most nearly is

- (A) 100.09
- (B) 100.18
- (C) 105.20
- (D) 110.40

## HINT

Molality of the ions will be twice the molality of the salt if it is completely dissociated.

## CONTRIBUTOR

Scott Campbell