

- Ethylene glycol antifreeze, $C_2H_6O_2$, (1.00 kg) is added to a car radiator that contains 5.00 kg of water. What is the freezing point of the solution obtained?
Data: The molal freezing point depression constant for water $K_f = 1.86 \text{ }^\circ\text{C kg mol}^{-1}$.