

Let's use Blagden's Law to solve it.

$T_f = K_f \cdot b \cdot i$; For water $K_f = 1.853 \text{ C} \cdot \text{kg/mol}$; $i = 2$ since we're having two ions from sodium chloride.

Molality of the solution is $(32/58.5) \cdot 1/0.555 = 0.98 \text{ mol/kg}$

Therefore $T_f = 1.853 \cdot 0.98 \cdot 2 = 3.63 \text{ C}$