

Lab Data

Volume of DI water (mL)

49.0

51.0

49.8

Verify your calculation

Moles of calcium chloride (mol)

0.0100

0.0196

0.0242

Mass of calorimeter + solution (g)

67.16

70.55

69.68

Mass of calorimeter + solution + ice (g)

112.82

115.83

116.45

Freezing-point of solution ($^{\circ}\text{C}$)

-0.88

-1.53

-1.69

Mass of calorimeter + ice after decanting (g)

43.92

41.32

33.65

Mass of ice added (g)

45.66

45.28

46.77

Mass of ice remaining after decanting (g)

26.64

23.86

16.24

Mass of melted ice (g)

19.02

21.42

30.53

Mass of water in final solution (g)

67.79

72.34

80.11

Mass of water in final solution (kg)

0.06779

0.07234

0.08011

Molality of solution (m)

0.148

0.271

0.302

Freezing-point depression ($^{\circ}\text{C}$)

0.78

1.43

1.59

van't Hoff factor

Colligative Properties Freezing Point Depression Lab Answers

Mary Millhollon, Richard H. Langley



Colligative Properties Freezing Point Depression Lab Answers:

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