

Thermochemistry Worksheet Key

1. How much heat, in calories, is released or absorbed if a 15.0 g sample of copper is converted from
(a) the solid to liquid state.

$$q = m \times \Delta H_{fus} = 15.0 \text{ g} \times 206 \frac{\text{J}}{\text{g}} \times \frac{1 \text{ cal}}{4.184 \text{ J}} = 738.5 = 739 \text{ cal}$$

So 739 cal is absorbed

- (b) the gas to the liquid state.

$$\begin{aligned} q &= m \times \Delta H_{con} = 15.0 \text{ g} \times -4.7 \frac{\text{kJ}}{\text{g}} \times \frac{1000 \text{ J}}{1 \text{ kJ}} \times \frac{1 \text{ cal}}{4.184 \text{ J}} = -16,849 \\ &= -1.68 \times 10^4 \text{ cal or } -16.8 \text{ kcal} \end{aligned}$$

So 16.8 kcal is released.

For copper m.p. = 1084 °C ; b.p. = 2927 °C; ΔH_{fus} = 206 J/g, ΔH_{vap} = 4.7 kJ/g

2. How much heat is absorbed or released if a 12.5 g sample of aluminum changes temperature from 25.0 to 87.5 °C? The specific heat capacity of aluminum is 0.900 J/g K

$$T_{final} = 87.5 + 273.15 = 360.65 \text{ K} \quad T_{initial} = 25.0 + 273.15 = 298.15 \text{ K}$$

$$\begin{aligned} q &= m \times c \times \Delta T = 12.5 \text{ g} \times 0.900 \frac{\text{J}}{\text{g} \cdot \text{K}} \times (360.65 - 298.15) \text{ K} \\ &= 12.5 \text{ g} \times 0.900 \frac{\text{J}}{\text{g} \cdot \text{K}} \times 62.5 \text{ K} = 703.1 = 703 \text{ J} \end{aligned}$$

3. What was the mass of a sample of water if the addition of 4.28×10^3 joules raised the temperature of the sample from 22.0 °C to 34.5 °C?

$$T_{final} = 34.5 + 273.15 = 307.65 \text{ K} \quad T_{initial} = 22.0 + 273.15 = 295.15 \text{ K}$$

T increases so endothermic so $q > 0$

$$q = m \times c \times \Delta T$$

$$\text{so } m = \frac{q}{c \times \Delta T} = \frac{4.28 \times 10^3 \text{ J}}{4.184 \frac{\text{J}}{\text{g} \cdot \text{K}} \times (307.65 - 295.15) \text{ K}} = \frac{4.28 \times 10^3 \text{ J}}{4.184 \frac{\text{J}}{\text{g} \cdot \text{K}} \times 12.5 \text{ K}} = 81.83 = 81.8 \text{ g}$$

Thermochemistry Practice Problems Worksheet

Daniel C. Tofan



Thermochemistry Practice Problems Worksheet:

General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material *Chemistry: 1,001 Practice Problems For Dummies (+ Free Online Practice)* Heather Hattori, Richard H. Langley, 2014-03-11 Practice makes perfect and helps deepen your understanding of chemistry Every high school requires a course in chemistry and many universities require the course for majors in medicine engineering biology and various other sciences 1001 Chemistry Practice Problems For Dummies provides students of this popular course the chance to practice what they learn in class deepening their understanding of the material and allowing for supplemental explanation of difficult topics 1001 Chemistry Practice Problems For Dummies takes you beyond the instruction and guidance offered in Chemistry For Dummies giving you 1 001 opportunities to practice solving problems from the major topics in chemistry Plus an online component provides you with a collection of chemistry problems presented in multiple choice format to further help you test your skills as you go Gives you a chance to practice and reinforce the skills you learn in chemistry class Helps you refine your understanding of chemistry Practice problems with answer explanations that detail every step of every problem Whether you re studying chemistry at the high school college or graduate level the practice problems in 1001 Chemistry Practice Problems For Dummies range in areas of difficulty and style providing you with the practice help you need to score high at exam time THERMOCHEMISTRY NARAYAN CHANGDER, 2024-04-08 Note Anyone can request the PDF version of this practice set workbook by emailing me at cbsenet4u gmail com You can also get full PDF books in quiz format on our youtube channel <https://www.youtube.com/smartquiziz> I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive examinations It contains many objective questions specifically designed for different exams Answer keys are provided at the end of each page It will undoubtedly serve as the best preparation material for aspirants This book is an engaging quiz eBook for all and offers something for everyone This book will satisfy the curiosity of most students while also challenging their trivia skills and introducing them to new information Use this invaluable book to test your subject matter expertise Multiple choice exams are a common assessment method that all prospective candidates must be familiar with in today s academic environment Although the majority of students are accustomed to this MCQ format many are not well versed in it To achieve success in MCQ tests quizzes and trivia challenges one requires test taking techniques and skills in addition to subject knowledge It also provides you with the skills and information you need to achieve a good score in challenging tests or competitive examinations Whether you have

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