



$$\Delta H_{298}^{\circ} = -68.73 \text{ kcal } (-287.57 \text{ kJ})$$

Atomic Weight of **B** = 10.82 grams.

Atomic Weight of **O** = 16.0 grams.

Required:

- (a) Standard heat of formation ΔH_{298}° of B_2O_3 in terms of per mole of B_2O_3 =?
- (b) Standard heat of formation ΔH_{298}° of B_2O_3 in terms of per gram of B_2O_3 =?

Solution:

Now, we will multiply above given equations with real numbers to make them equal and then we will add all equations with each other. It will yield the final equation which will lead us to the final solution of this problem.

1. Multiply eq (i) with 2.



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SJ Ball



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TEXTBOOK OF MATERIALS AND METALLURGICAL THERMODYNAMICS GHOSH, AHINDRA, 2002-01-01 Metallurgical Thermodynamics as well as its modified version Thermodynamics of Materials forms a core course in metallurgical and materials engineering constituting one of the principal foundations in these disciplines Designed as an undergraduate textbook this concise and systematically organized text deals primarily with the thermodynamics of systems involving physico chemical processes and chemical reactions such as calculations of enthalpy entropy and free energy changes of processes thermodynamic properties of solutions chemical and phase equilibria and thermodynamics of surfaces interfaces and defects The major emphasis is on high temperature systems and processes involving metals and inorganic compounds The many worked examples diagrams and tables that illustrate the concepts discussed and chapter end problems that stimulate self study should enable the students to study the subject with enhanced interest

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Thermodynamic Measurement Techniques Mohammad Shamsuddin, 2024-07-18 This book offers various techniques for measurement of thermodynamic quantities of materials such as enthalpy free energy and entropy Techniques described herein include calorimetry chemical equilibria vapour pressure and electrochemical analysis The book covers general and solution thermodynamics in Chapters 1 and 2 respectively and highlights the significance of various thermodynamic quantities required for materials characterization and development in Chapter 3 The author goes on to discuss different thermodynamic measurement techniques in detail Chapters 4 8 together with a set of more than fifty worked out problems related to classical as well as solution thermodynamics and measurement techniques Chapter 9 Topics include but are not limited to the following The

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Phase Transformation in Metals Nestor Perez, 2020-09-25 This textbook explains the physics of phase transformation and associated constraints from a metallurgical or materials science point of view based on many topics including crystallography mass transport by diffusion thermodynamics heat transfer and related temperature gradients thermal deformation and even fracture mechanics The work presented emphasizes solidification and related analytical models based on heat transfer This corresponds with the most fundamental physical event of continuous evolution of latent heat of fusion for directional or non directional liquid to solid phase transformation at a specific interface with a certain geometrical shape such as planar or curved front Dr Perez introduces mathematical and engineering approximation schemes for describing the phase transformation mainly during solidification of pure metals and alloys Giving clear definitions and explanations of theoretical concepts and full detail of derivation of formulae this interdisciplinary volume is ideal for graduate and upper level undergraduate students in applied science and professionals in the metal making and surface reconstruction industries

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