$$H_2 + \frac{1}{2}O_2 = H_2O(liq) \dots eq(iii)$$

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

Atomic Weight of B = 10.82 grams.

Atomic Weight of O = 16.0 grams.

## Required:

- (a) Standard heat of formation ΔH<sup>0</sup><sub>298</sub> of B<sub>2</sub>O<sub>3</sub> in terms of per mole of B<sub>2</sub>O<sub>3</sub> =?
- (b) Standard heat of formation  $\Delta H_{298}^{9}$  of  $B_{2}O_{3}$  in terms of per gram of  $B_{2}O_{3} = ?$

# 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.

## Multiply eq (i) with 2.

$$4B + 6H_2 + 6O_2 + aq. = 4H_3BO_3$$
 (dil. sol) ... ... eq(x)

BSMME(19-23)

# **Problems In Metallurgical Thermodynamics And Kinetics**

E.J. Hearn

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