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(a) The symbol equation for the reaction can be represented as shown in Fig. 3.1.

Fig. 3.1

Table 3.1 shows some bond energies.

bond	kJ mol ⁻¹	kJ mol ⁻¹
bond energy in kJ/mol	440	435

Use the bond energies in Table 3.1 and ΔH to calculate the bond energy of one N-H bond in kJ/mol.

Use the following steps.

- Calculate the energy needed to break bonds in the reactants.

$$\begin{aligned}
 & (500) + 3(440) \\
 & 440 + 3(440) \quad \quad \quad 1660 \text{ kJ}
 \end{aligned}$$
- Calculate the energy released when bonds form in the products.

$$\begin{aligned}
 & \text{bond broken} - \text{bond formed} = -90 \\
 & 1660 = x - 90 \\
 & \quad \quad \quad x = 1660 + 90 \\
 & \quad \quad \quad x = 1750 \text{ kJ}
 \end{aligned}$$
- Calculate the energy of one N-H bond.

$$\begin{aligned}
 & 6 \times (\text{N-H}) = 1750 \\
 & \text{N-H} = \frac{1750}{6} \quad \quad \quad 292 \text{ kJ/mol}
 \end{aligned}$$

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N Colangelo



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Ovarian cancer is an umbrella term for a collection of distinct disease entities histotypes Until now the majority of research has focussed on the most common histotype high grade serous ovarian carcinoma HGSOC which accounts for 70% of cases The less common histotypes including endometrioid clear cell mucinous low grade serous carcinosarcoma and non epithelial histotypes have received far less research attention Accordingly while major advances in our understanding of HGSOC have led to molecularly directed therapies that improve patient outcomes progress in less common histotypes has lagged behind Notably many of the uncommon histotypes demonstrate resistance to conventional chemotherapy regimens and their inherent biological differences suggest most are unlikely to respond to emerging molecular therapeutics designed to target the biology of common ovarian cancer types *Biomedical Index to PHS-supported Research* ,1990

The book delves into 0620 13 M J 14 Mark. 0620 13 M J 14 Mark is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into 0620 13 M J 14 Mark, encompassing both the fundamentals and more intricate discussions.

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- Chapter 4: 0620 13 M J 14 Mark in Specific Contexts
- Chapter 5: Conclusion

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