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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	H-H	N-H
Bond energy in kJ/mol	436	413

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.

$$(4H_2) + 1(N_2)$$

$$4(436) + 1(945)$$

$$3150 \text{ kJ}$$
- Calculate the energy released when bonds form in the products.

$$\text{Bond broken} - \text{Bond formed} = -92$$

$$3150 - x = -92$$

$$x = 3150 + 92$$

$$x = 3242$$
- Calculate the energy of one N-H bond.

$$6 \times \text{N-H} = 3242$$

$$\text{N-H} = \frac{3242}{6}$$

$$540 \text{ kJ/mol}$$

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S Nieto



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