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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	N-H	N-N
bond energy in kJ/mol	435	165

Use the bond energies in Table 3.1 and ΔH to calculate the bond energy of an **N-O bond** in kJ/mol.

Use the following steps.

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

$$(4 \times 435) + 1(4 \times 165)$$

$$4 \times 435 + 1(4 \times 165)$$

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

$$\text{bond broken} - \text{bond formed} = -90$$

$$3150 - x = -90$$

$$x = 3150 + 90$$

$$x = 3240 \text{ kJ}$$
- Calculate the energy of **an N-O bond**.

$$6 \times (\text{N-O}) = 3240$$

$$\text{N-O} = \frac{3240}{6}$$

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

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RJ Shavelson



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