

**Using Hess's Law to Determine Enthalpy Change**  
(Student textbook page 316)

41. Nitrogen dioxide,  $\text{NO}_2(\text{g})$ , is an emission resulting from the burning of gasoline in an automobile engine that contributes to the formation of smog and acid rain. It can be converted to dinitrogen tetroxide as shown below:



- a. Use Hess's law and the following equations to determine the enthalpy change for this reaction.



- b. Write the thermochemical equation for the overall reaction.

**What Is Required?**

You need to determine the enthalpy change of a reaction by using two other reactions.

**What Is Given?**

You are given the overall equation. You are given two equations and their corresponding enthalpy changes that can be manipulated to represent the individual steps that occur to reach the overall equation.

Plan Your Strategy	
a. Apply Hess's law. The given equations can be manipulated so that their reactants and products match the reactants and products in the overall equation.	
To manipulate the equations, reverse (1).	
When an equation is reversed, the sign of $\Delta H^\circ$ is reversed. If the stoichiometric coefficients in a given equation are multiplied by an integer or a fraction, multiply $\Delta H^\circ$ for that equation by the same integer or fraction.	
Act on Your Strategy	
$-1 \times (1):$	$2\text{NO}_2(\text{g}) \rightarrow \text{N}_2(\text{g}) + 2\text{O}_2(\text{g}) \quad \Delta H^\circ = -66.4 \text{ kJ}$
(2):	$\text{N}_2(\text{g}) + 2\text{O}_2(\text{g}) \rightarrow \text{N}_2\text{O}_4(\text{g}) \quad \Delta H^\circ = 11.1 \text{ kJ}$
Plan Your Strategy	
To determine the overall reaction, add the manipulated equations together, cancelling species that are common to both sides.	
Add the $\Delta H^\circ$ values together to find the enthalpy change for the overall reaction.	

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**Chemical Society (Great Britain)**



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*Chemistry 12. Solutions Manual [electronic Resource]* Frank J. Mustoe, 2002      *The Physical Chemistry of Electrolytic Solutions* Herbert S. Harned, Benton Brooks Owen, 1958      *Geothermal Energy Update*, 1981-06      **Nuclear Science Abstracts**, 1958      **Energy Research Abstracts**, 1980      First National Symposium on Nuclear Chemistry, Warsaw, Feb. 10-12, 1964, 1965      **Abstract Bulletin of the Institute of Paper Chemistry** Institute of Paper Chemistry (Appleton, Wis.), 1961      Quarterly Journal of the Chemical Society of London Chemical Society (Great Britain), 1965      **Journal of the Chemical Society** Chemical Society (Great Britain), 1965 Titles of chemical papers in British and foreign journals included in Quarterly journal v 1 12      *Journal of Organic Chemistry of the USSR*, 1976      **Journal of Analytical Chemistry of the USSR.**, 1971      **Principles of Polymerization** George G. Odian, 1991-11 Describes the physical and organic chemistry of the reactions by which polymer molecules are synthesized Begins by introducing the characteristics which distinguish polymers from their much smaller sized homologs Proceeds to a detailed study of three types of polymerization reactions step chain and ring opening Reactions are characterized as to their kinetic and thermodynamic features their scope and utility for synthesis of different types of polymer structures and the process conditions which are used to carry them out Assumes a background in organic and physical chemistry and can serve as either a self teaching guide to polymers for the beginner or as a handy reference for the experienced polymer chemist Each chapter includes a selection of problems to aid learning and a solutions manual is available on request      Russian Journal of Inorganic Chemistry, 2004      **Druggists Circular**, 1871      **Guide to Gas Chromotography Literature** Austin V. Signeur, 1964      **Papers and Reports Relating to Minerals and Mining** New Zealand. Mines Department, 1906      Appendix to the Journal of the House of the Representatives New Zealand. Legislature. House of Representatives, 1906      *Appendix to the Journals of the House of Representatives of New Zealand* New Zealand. Parliament. House of Representatives, 1906      Petroleum Abstracts, 1994      **Sodium Technology** U.S. Atomic Energy Commission, 1972

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