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Thermodynamics and Chemistry Second Edition Version 8, October 2016 Howard DeVoe Associate Professor of Chemistry Emeritus University of Maryland, College Park, Maryland

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1 General Chemistry II Jasperse Entropy, Spontaneity, and Free Energy. Extra Practice Problems  
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laws find applications in physics, chemistry, engineering, medicine, biotechnology, biochemistry, geology and space sciences. The branch of chemistry dealing with the investigation of energetics and feasibility of chemical reactions and physical changes is called chemical thermodynamics.

### **Physical Chemistry - nsdl.niscair.res.in**

Chemical Thermodynamics Example 9.2 The element mercury, Hg, is a silvery liquid at room temperature. The normal freezing point of mercury is  $-38.9^{\circ}\text{C}$ , and its molar enthalpy of fusion is  $\Delta H_{\text{fusion}} = 2.29 \text{ kJ/mol}$ . What is the entropy change of the system when 50.0 g of Hg(l) freezes at the normal freezing

### **Chapter 19 Chemical Thermodynamics**

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