

## 21.E: Entropy and the Third Law of Thermodynamics (Exercises)

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### 21.E.0.1: Problem 1

Liquid water has a nearly constant molar heat capacity of  $\bar{C}_P = 75.4. \text{ J} \cdot \text{mol}^{-1} \text{K}^{-1}$ . What is the change in entropy as 200. g of water are cooled from 70.0°C to 20.0°C?

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