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The chemical potential (molar Gibbs free energy) of a pure substance can be written as. For the pure substances (as per third law of thermodynamics, entropy increases at all temperatures, except absolute zero).. From the above equation, the change in chemical potential with respect to change in temperature is

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negative.

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The chemical potential of a substance in a mixture is a logarithmic function of its concentration This Topic extends the concept of chemical potential to substances in mixtures by building on the concept introduced in the

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context of pure  
substances (Topic 4A)  
It makes use of the  
relation between  
entropy and the  
temperature  
dependence of the ...

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experts so you can be assured of the highest quality! Skip Navigation. ... Molar Gibbs energy ( $\mu$ ) is called as chemical potential ( $\mu$ ). The chemical potential of a substance changes with the change in the state of the substance. Two phases ...

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Same chemical potential Answer:  
Liquid At equilibrium, the chemical potential of a substance is the same throughout a sample, regardless of how many phases are present Criterion of phase equilibrium fact, this quantity plays such an important role in this chapter and the rest of the text that we give it a special name and symbol, the chemical



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In thermodynamics, chemical potential of a species is energy that can be absorbed or released due to a change of the particle number of the given species, e.g. in a chemical reaction or phase transition. The chemical potential of a species in a mixture is defined as the rate of change of free energy of a thermodynamic system with respect to

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the change in the  
number of atoms or  
molecules of the ...

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potential of benzene  
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sample is increased  
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in front of a number  
indicates that ...**

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CHAPTER 3: The

Second Law. The

direction of

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energy 3.2 Entropy 3.3  
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accompanying specific  
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Concentrating on the  
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