

Phase Changes in Pure Substances

WHY?

A phase diagram is a convenient way to represent which phase (solid, liquid, or gas) or combination of phases is present at different temperatures and pressures. Knowing the relationship of temperature and pressure to a material's phase is necessary in order to determine its suitability for a particular application (e.g., a high-temperature engine component or a cooking oil). Phase diagrams are used, for example, to plan the synthesis of artificial diamonds and new materials, or to deduce the history of geological samples. Additionally, knowledge of a material's capacity to absorb energy in a particular phase or while changing phases is essential to the temperature and stability of systems involving chemical reactions and energy transfer.

LEARNING OBJECTIVES

- Interpret the major features of a phase diagram
- Interpret a heating or cooling curve to determine the physical and thermochemical properties of a pure substance

SUCCESS CRITERIA

- Identify stable phases, at particular temperatures and pressures, from a phase diagram
- Use a phase diagram to identify the temperatures and pressures at which phase changes occur
- Use a heating curve to determine a substance's melting and boiling points, specific heat capacities for each phase, and enthalpies associated with phase changes

PREREQUISITES

06-1 *Thermochemistry and Calorimetry*

06-2 *Internal Energy and Enthalpy*

INFORMATION



A *phase diagram* summarizes the relationships between a substance's phase, temperature, and pressure. It represents a map of the states of matter for a pure substance. Within a pure phase, the addition or removal of heat results in a change in temperature.

Boundary lines between pure phases represent the temperatures and pressures at which two phases are in equilibrium. As a phase change or transition occurs across these boundary lines, the temperature does not change until the phase change is complete.

A *triple point* marks the temperature and pressure where three boundary lines come together. At these points, three phases are in equilibrium.

A phase diagram can be produced by observing the which phase of a substance is present under specific temperature and pressure conditions, as heat energy is added to or removed from the system. A *heating curve* is a plot of the temperature of the substance as a function of the energy added. A *cooling curve* is a plot of the temperature as a function of the energy removed.

Measurement of the amount of energy transferred in a heating or cooling experiment makes it possible to determine the enthalpies of fusion and vaporization for phase changes, as well as the specific heat capacities of different pure phases.

Pogil Chapter 11 Key

Richard M. Felder, Rebecca Brent

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes [Argumentation in Chemistry Education](#)

Sibel Erduran, 2022-06-29 Scientists use arguments to relate the evidence that they select from their investigations and to justify the claims that they make about their observations This book brings together leading researchers to draw attention to research policy and practice around the inclusion of argumentation in chemistry education *Teaching and Learning STEM*

Richard M. Felder, Rebecca Brent, 2024-03-19 The widely used STEM education book updated Teaching and Learning STEM A Practical Guide covers teaching and learning issues unique to teaching in the science technology engineering and math STEM disciplines Secondary and postsecondary instructors in STEM areas need to master specific skills such as teaching problem solving which are not regularly addressed in other teaching and learning books This book fills the gap addressing topics like learning objectives course design choosing a text effective instruction active learning teaching with technology and assessment all from a STEM perspective You ll also gain the knowledge to implement learner centered instruction which has been shown to improve learning outcomes across disciplines For this edition chapters have been updated to reflect recent cognitive science and empirical educational research findings that inform STEM pedagogy You ll also find a new section on actively engaging students in synchronous and asynchronous online courses and content has been substantially revised to reflect recent developments in instructional technology and online course development and delivery Plan and deliver lessons that actively engage students in person or online Assess students progress and help ensure retention of all concepts learned Help students develop skills in problem solving self directed learning critical thinking teamwork and communication Meet the learning needs of STEM students with diverse backgrounds and identities The strategies presented in Teaching and Learning STEM don t require revolutionary time intensive changes in your teaching but rather a gradual integration of traditional and new methods The result will be a marked improvement in your teaching and your students learning

Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more

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