

Free Energy

Where does the energy come from that keeps all living things alive?

Why?

All living things require a constant flow of energy. This is one of the big ideas in science. If the flow of energy to an ecosystem is cut off, like an extended lack of sunlight or food, then all the living things in the ecosystem will die. But you have heard of the Law of Conservation of Energy, so why wouldn't there always be enough energy to go around?

Model 1 – Spontaneous Processes

	Process Description	Change in Enthalpy (ΔH)	Change in Entropy (ΔS)	Spontaneous?
A	Two pure substances → Homogeneous mixture	- 0	Increasing	Yes
B	Solute on one side of membrane → Solute on both sides of membrane	- 0	Increasing	Yes
C	Polypeptide chain → Individual amino acids	Exothermic (negative)	Increasing (positive)	Yes
D	$C_3H_8 + 5O_2 \rightarrow 3CO_2 + 4H_2O$	Exothermic	Increasing	Yes
E	$6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$	Endothermic	Decreasing	No
F	Glucose → Starch	Endothermic	Decreasing	No
G	Water → Ice	Exothermic	Decreasing	Below 0 °C, yes Above 0 °C, no
H	Cold water (25 °C) → Hot water (60 °C)	Endothermic	Increasing	Below 60 °C, no Above 60 °C, yes

1. Consider Model 1.

a. What two terms are used to describe the enthalpy changes for the reactions?

Endothermic and Exothermic

b. What is the symbol for the change in enthalpy?

A triangle with an uppercase H

c. What sign (+ or -) does the change in enthalpy have when the reaction releases heat energy to the surroundings?

-Negative

Save Energy Pogil

Alvin Ubell, George Merlis



Save Energy Pogil:

Save Energy Pogil Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Save Energy Pogil**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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