

# CRYOHYDRATE

*Meaning: Cryohydrate is a solid compound formed from the combination of water and gas, typically occurring under low temperature and high pressure, which can encapsulate gas molecules such as methane.*

1. Cryohydrate formation is crucial in understanding the behavior of certain gases under extreme conditions.
2. Researchers have discovered that cryohydrates can trap methane, offering potential solutions for energy storage.
3. The study of cryohydrates involves complex phase diagrams that illustrate their stability at various temperatures and pressures.
4. In the Arctic regions, cryohydrates play a significant role in the carbon cycle and climate change dynamics.
5. Scientists are investigating the use of cryohydrates in enhancing the efficiency of refrigeration systems.

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