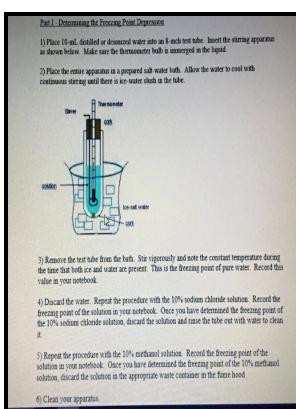


Checking the correctness of water analyses with freezing point depressions

Mississippi State University - UCSB Science Line



Description: -

- Discourse analysis.

Alaska -- Description and travel.

Saint Elias, Mount (Alaska and Yukon)

Skovsgård (Denmark) -- History -- Sources -- Bibliography -- Catalogs.

Landsarkivet for Fyn -- Catalogs.

Büchler, Pavel.

Chemistry, Physical and theoretical.

Water -- Analysis. Checking the correctness of water analyses with freezing point depressions

- Checking the correctness of water analyses with freezing point depressions

Notes: Bibliography: leaf 54.

This edition was published in 1967



Filesize: 6.32 MB

Tags: #Plant #Physiology

Math Principles: Freezing Point Depression Problems, 2

The temperature reading from the thermometer was recorded every 30 seconds. Colligative Properties of Electrolyte Solutions Thus far we have assumed that we could simply multiply the molar concentration of a solute by the number of ions per formula unit to obtain the actual concentration of dissolved particles in an electrolyte solution. Virtually every barrier that separates an organism or cell from its environment acts like a semipermeable membrane, permitting the flow of water but not solutes.

Colligative Properties: Freezing

Theory of osmolality Osmolality is a general measure of the particle concentration in a solute. An 8% ABW solution has density 0.

Osmometer

You've just watched JoVE's introduction to using freezing point depression to determine the identity of an unknown compound.

What is Freezing Point Depression & How it Works with Videos

Does it mean that the salty solution will freeze slower than the pure water? We stated without offering proof that this should result in a higher boiling point for the solution compared with pure water. Plugging this into the freezing point equation allows the elucidation of the molar mass, once the temperature difference is known.

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