

THE CHEMISTRY OF ICE CREAM

Flavors and Colors



While natural ice cream has a number of compounds, deeper flavor is accomplished through artificial flavoring. Vanilla flavoring is simply Vanillin, while other flavor compounds can be much more complex. Anthocyanins are used to color strawberry ice cream.

Fats and Proteins

The fat in ice cream is what makes it creamy!

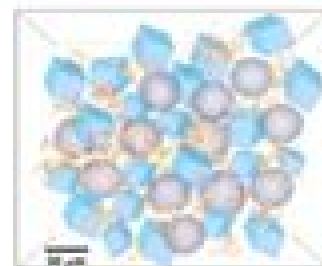
The proteins in milk form a membrane around the fat droplets, making it hard for them to come in contact with each other.

When ice cream is made, some of the fat in the droplets solidifies. This causes fat 'needles' to form, which helps droplets cluster and creates air bubbles.



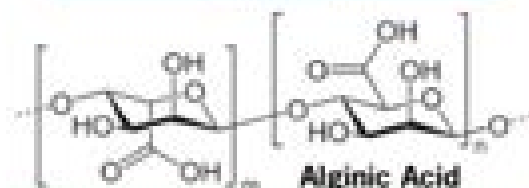
Fat
(Triglyceride)

The Structure



Beating and aeration occur at the same time, creating small air bubbles (stabilized by de-emulsified fat.) Air makes up 30 - 50% of ice cream's volume. During freezing, water becomes ice crystals.

Stabilisers



Stabilizers are carefully added to ice cream. This prevents ice cream from melting too quickly, provides a smoother texture, and increases the viscosity of the liquid phase of the ice cream.



Making Ice Cream At Home Chemistry Lab

University of Georgia

The logo of the University of Georgia, featuring a red and white circular design with a stylized 'U' and 'G'.

Making Ice Cream At Home Chemistry Lab:

Illustrated Guide to Home Chemistry Experiments Robert Bruce Thompson, 2012-02-17 For students DIY hobbyists and science buffs who can no longer get real chemistry sets this one of a kind guide explains how to set up and use a home chemistry lab with step by step instructions for conducting experiments in basic chemistry not just to make pretty colors and stinky smells but to learn how to do real lab work Purify alcohol by distillation Produce hydrogen and oxygen gas by electrolysis Smelt metallic copper from copper ore you make yourself Analyze the makeup of seawater bone and other common substances Synthesize oil of wintergreen from aspirin and rayon fiber from paper Perform forensics tests for fingerprints blood drugs and poisons and much more From the 1930s through the 1970s chemistry sets were among the most popular Christmas gifts selling in the millions But two decades ago real chemistry sets began to disappear as manufacturers and retailers became concerned about liability em The Illustrated Guide to Home Chemistry Experiments steps up to the plate with lessons on how to equip your home chemistry lab master laboratory skills and work safely in your lab The bulk of this book consists of 17 hands on chapters that include multiple laboratory sessions on the following topics Separating Mixtures Solubility and Solutions Colligative Properties of Solutions Introduction to Chemical Reactions Stoichiometry Reduction Oxidation Redox Reactions Acid Base Chemistry Chemical Kinetics Chemical Equilibrium and Le Chatelier s Principle Gas Chemistry Thermochemistry and Calorimetry Electrochemistry Photochemistry Colloids and Suspensions Qualitative Analysis Quantitative Analysis Synthesis of Useful Compounds Forensic Chemistry With plenty of full color illustrations and photos Illustrated Guide to Home Chemistry Experiments offers introductory level sessions suitable for a middle school or first year high school chemistry laboratory course and more advanced sessions suitable for students who intend to take the College Board Advanced Placement AP Chemistry exam A student who completes all of the laboratories in this book will have done the equivalent of two full years of high school chemistry lab work or a first year college general chemistry laboratory course This hands on introduction to real chemistry using real equipment real chemicals and real quantitative experiments is ideal for the many thousands of young people and adults who want to experience the magic of chemistry

The Complete Home Learning Sourcebook Rebecca Rupp, 1998 Lists all the resources needed to create a balanced curriculum for homeschooling from preschool to high school level

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