

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!

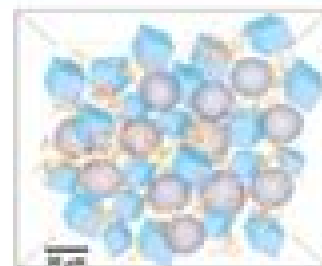
The proteins in milk form a membrane around the fat droplets, making it hard for them to come in contact with each other.

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.



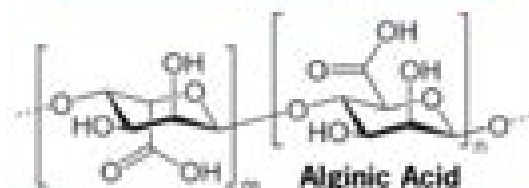
Fat
(Triglyceride)

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.



Chemistry Lab How To Make Ice Cream

Kristen Miglore



Chemistry Lab How To Make Ice Cream:

Chemistry in Your Kitchen Matthew Hartings, 2020-08-28 Whether you know it or not you become a chemist any time you step into a kitchen As you cook you oversee intricate chemical transformations that would test even the most hardened of professional chemists Focussing on how and why we cook different dishes the way we do this book introduces basic chemistry through everyday foods and meal preparations Through its unique meal by meal organisation the book playfully explores the chemistry that turns our food into meals Topics covered range from roasting coffee beans to scrambling eggs and gluten development in breads The book features many experiments that you can try in your own kitchen such as exploring the melting properties of cheese retaining flavour when cooking and pairing wines with foods Through molecular chemistry biology neuroscience physics and agriculture the author discusses various aspects of cooking and food preparation This is a fascinating read for anyone interested in the science behind cooking

Chemistry in the Laboratory James M. Postma, Julian L. Robert, J. Leland Hollenberg, 2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations

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