

THE CHEMISTRY OF ICE CREAM

Ice cream is a combination of air, ice crystals, fat globules, and a liquid syrup. These are combined to make a colloid, a solution with very small insoluble particles suspended in it. This graphic looks in detail at the components of this colloid, and some molecules that produce ice cream flavours.

FATS, PROTEINS, & EMULSIFIERS



- LIQUID FAT
- ↑ EMULSIFIER MOLECULES
- ⬇ MILK PROTEINS
- ↓ FAT CRYSTALS

Fats are important for the creaminess of ice cream. Proteins from milk form a membrane around the fat droplets, making it harder for them to come in contact with each other. Emulsifiers replace some milk protein on the surface of the fat droplet. As ice cream is made, some of the fat in the droplet solidifies, and the fat 'needles' that form help droplets to partially cluster. These clusters, along with milk proteins, help stabilize air bubbles in the ice cream.

THE STRUCTURE OF ICE CREAM



● ICE CRYSTALS	30%
○ AIR BUBBLES	30%
■ FAT DROPLETS	7%
■ LIQUID SYRUP	33%

% by volume for typical composition

During freezing, most water is frozen into ice. Small ice crystals are needed for smooth ice cream. Beating and aeration occur at the same time as freezing to form small air bubbles, stabilised by de-emulsified fat. Air makes up 30-50% of ice cream's final volume. Sugar softens the ice cream, and lowers the freezing point of water, reducing the amount of ice. Soft ice cream contains less ice.

FLAVOURS AND COLOURS



Vanillin



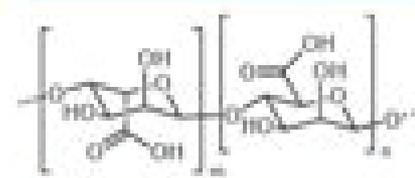
Vanillin



Vanillin

Natural ice cream flavours contain a number of flavour-contributing compounds. Flavouring can also be achieved artificially. Artificial vanilla flavouring is often simply vanillin; other artificial flavours are more complex. Other compounds can be used as flavour enhancers - an unusual example is diacetyl, also found in butter, but which has a floral colour at lower concentrations. Colours can be added artificially; anthocyanins from plants are amongst the colouring agents used.

STABILISERS



ALGINIC ACID

Alginate is the natural salt of alginic acid. Another stabiliser that can be obtained from seaweed is carrageenan.

Stabilisers are added in small amounts (<0.2%) to ice cream. Often extracted from plants, a common example is sodium alginate, the sodium salt of alginic acid, extracted from brown seaweeds. Stabilisers reduce the rate at which ice cream melts, add smoothness, and increase the viscosity of the liquid phase of ice cream. Use of multiple stabilisers can produce synergistic effects.



Science Of Ice Cream

Chris Clarke, Andrew Cox



Science Of Ice Cream:

Science of Ice Cream Chris Clarke,2015-11-09 Ice cream as we recognize it today has been in existence for at least 300 years though its origins probably go much further back in time Before the development of refrigeration ice cream was a luxury reserved for special occasions but its advance to commercial manufacture was helped by the first ice cream making machine patented by Nancy Johnson in Philadelphia in the 1840s The second edition of The Science of Ice Cream has been fully revised and updated with new material The book still begins with the history of ice cream subsequent chapters looking at the link between the microscopic and macroscopic properties and how these relate to the ultimate texture of the product you eat Information on nutritional aspects and developments in new products and processes for making ice cream have been added and the books is completed with some suggestions for experiments relating to ice cream and how to make it at home or in a school laboratory The book has authenticity and immediacy being written by an active industrial practitioner and is ideal for undergraduate food science students as well as those working in the food industry It is also accessible to the general reader who has studied science to A level and provides teachers with ideas for using ice cream to illustrate scientific principles

Science of Ice Cream Chris Clarke,Andrew Cox,2024-07-24 Ice cream as we recognize it today has been in existence for at least 300 years though its origins probably go much further back in time Before the development of refrigeration ice cream was a luxury reserved for special occasions but its advance to commercial manufacture was helped by the first ice cream making machine patented by Nancy Johnson in Philadelphia in the 1840s The third edition of The Science of Ice Cream has been fully revised and updated with new material The book still begins with the history of ice cream subsequent chapters looking at the link between the microscopic and macroscopic properties and how these relate to the ultimate texture of the product you eat A new chapter on non dairy ice cream has been added and the book is completed with some suggestions for experiments relating to ice cream and how to make it at home or in a school laboratory The book has authenticity and immediacy with a new co author who is an active industrial practitioner and is ideal for undergraduate food science students as well as those working in the food industry It is also accessible to the general reader with a basic knowledge of science and provides teachers with ideas for using ice cream to illustrate scientific principles

Science of Ice Cream Chris Clarke,2007-10-31 Ice cream as we recognize it today has been in existence for at least 300 years though its origins probably go much further back in time Though no one knows who invented ice cream The first ice cream making machine was invented by Nancy Johnson of Philadelphia in the 1840s The Science of Ice Cream begins with an introductory chapter on the history of ice cream Subsequent chapters outline the physical chemistry underlying its manufacture describe the ingredients and industrial production of ice cream and ice cream products respectively detail the wide range of different physical and sensory techniques used to measure and assess ice cream describe its microstructure i e ice crystals air bubbles fat droplets and sugar solution and how this relates to the physical properties and ultimately the texture that you experience

when you eat it Finally some suggestions are provided for experiments relating to ice cream and ways to make ice cream at home or in a school laboratory The Science of Ice Cream is ideal for undergraduate food science students as well as for people working in the ice cream industry It is also accessible to the general reader who has studied science to A level and provides teachers with ideas for using ice cream to illustrate scientific principles

The Science of Ice Cream Chris Clarke,2004 Processing dairy and related products

Ice Cream H Douglas Goff,Richard W Hartel,2013-01-17 Ice Cream 7th Edition focuses on the science and technology of frozen dessert production and quality It explores the entire scope of the ice cream and frozen dessert industry from the chemical physical engineering and biological principles of the production process to the distribution of the finished product It is intended for industry personnel from large to small scale processors and suppliers to the industry and for teachers and students in dairy or food science or related disciplines While it is technical in scope it also covers much practical knowledge useful to anyone with an interest in frozen dessert production World wide production and consumption data global regulations and as appropriate both SI and US units are provided so as to ensure its relevance to the global frozen dessert industry This edition has been completely revised from the previous edition updating technical information on ingredients and equipment and providing the latest research results Two new chapters on ice cream structure and shelf life have been added and much material has been rearranged to improve its presentation Outstanding in its breadth depth and coherence Ice Cream 7th Edition continues its long tradition as the definitive and authoritative resource for ice cream and frozen dessert producers

The Science of Ice Cream Chris Clarke,2004

Hello, My Name Is Ice Cream Dana Cree,2017-03-28 With more than 100 recipes for ice cream flavors and revolutionary mix ins from a James Beard nominated pastry chef Hello My Name is Ice Cream explains not only how to make amazing ice cream but also the science behind the recipes so you can understand ice cream like a pro Hello My Name is Ice Cream is a combination of three books every ice cream lover needs to make delicious blends 1 an approachable quick start manual to making your own ice cream 2 a guide to help you think about how flavors work together and 3 a dive into the science of ice cream with explanations of how it forms how air and sugars affect texture and flavor and how you can manipulate all of these factors to create the ice cream of your dreams The recipes begin with the basics super chocolately chocolate and Tahitian vanilla then evolve into more adventurous infusions custards sherbets and frozen yogurt styles And then there are the mix ins simple treats elevated by Cree s pastry chef mind including chocolate chips designed to melt on contact once you bite them and brownie bits that crunch

Handbook of Food Science, Technology, and Engineering Yiu H. Hui,2006

Food Science Norman N. Potter,Joseph H. Hotchkiss,1998 Now in its fifth edition Food Science remains the most popular and reliable text for introductory courses in food science and technology This new edition retains the basic format and pedagogical features of previous editions and provides an up to date foundation upon which more advanced and specialized knowledge can be built This essential volume introduces and surveys the broad and complex interrelationships among food

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Science John Michels, 1927 Vols for 1911-13 contain the Proceedings of the Helminthological Society of Washington ISSN 0018-0120 1st-15th meeting

Science California Agricultural Experiment Station, 1924

The Really Useful Book of Science Experiments Tracy-Ann Aston, 2015-09-16

The Really Useful Book of Science Experiments contains 100 simple to do science experiments that can be confidently carried out by any teacher in a primary school classroom with minimal or no specialist equipment needed The experiments in this book are broken down into easily manageable sections including

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Domestic Science Ida Hood Clark, 1911 *Boston Cooking-school Magazine of Culinary Science and Domestic Economics*, 1910

[The Boston Cooking School Magazine of Culinary Science and Domestic Economics](#) Janet McKenzie Hill, 1906 *The Boston Cooking-School Magazine of Culinary Science and Domestic Economics*

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,1876 **Forward Steps in Farm Science** Andrew Robeson Whitson,Benjamin Horace Hibbard,Edwin Bret Hart,Harry
Luman Russell,Meredith Chester Wilson,Preston Essex McNall,Theodore Macklin,University of Wisconsin. Agricultural
Experiment Station,1926 **Book of Recipes for the Domestic Science Department of the Altoona High School ...**
Zitella Wertz,1913

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