

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



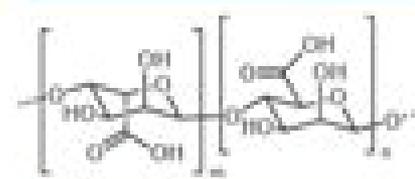
Vanillin



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 algic 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.

Chemistry Lab How To Make Ice Cream

Marcel A. Müller



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la musique médiévale est un terme général pour désigner une période couvrant à peu près 800 ans de l'histoire de la

musique occidentale religieuse et profane et commençant avec les premières musiques chrétiennes d avant la réforme grégorienne jusqu aux musiques de la fin du xive siècle

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l histoire de la musique est l étude de l évolution de tous les types de musiques de toutes les régions du monde origine de la musique musiciennes égyptiennes la musique existe depuis les temps les plus reculés et il est difficile de dater même approximativement son origine