

# WHAT'S IN OUR FOOD:

## Understanding Common Food Ingredients

We enjoy a food supply that is safe, convenient, healthful, flavorful and affordable. Food ingredients – both those that have been used for centuries, as well as those developed more recently – help to make that possible.



Food ingredients such as those found in the ingredient list on food labels are some of the most studied areas of the food supply. Food ingredients are carefully regulated by the U.S. Food and Drug Administration (FDA) to ensure that foods containing them are safe to eat and are accurately labeled.

Each food ingredient serves a function in our food supply. It may not always be obvious, but it is nevertheless important.

### Why Are Ingredients Added to Food?

Food ingredients perform a variety of important functions in foods:

1. **To maintain or improve safety and freshness.** Preservatives help prevent spoilage and can significantly reduce the risk of foodborne illness.
2. **To improve taste.** Natural and artificial flavors, spices, and sweeteners can enhance the taste of foods that have been reformulated to contain less calories, fat, and sugar.
3. **To provide texture.** The addition of food ingredients such as leavening agents, emulsifiers, stabilizers, and thickeners give foods light, airy or smooth textures.

4. **To improve appearance.** Naturally colorless foods such as yogurts, cheeses, and juices, may be enhanced with natural and artificial food colors.

### Why do food ingredients sometimes have long names that are hard to pronounce?

The FDA requires that the proper scientific term be used to identify food ingredients, even though they may be unfamiliar to consumers. The long “chemical” sounding names of ingredients are simply the scientific names, and are no different than other chemical compounds we are familiar with, such as sodium chloride (NaCl), which is table salt, and dihydrogen oxide (H<sub>2</sub>O, or water). Just like salt and water, many ingredients in foods are readily found in nature, including, fructose (found in fruits), steviol glycosides (also known as stevia, found in the stevia plant), and thiamine mononitrate (ordinary vitamin B1). Some food ingredients may also be associated with certain health benefits such as beta carotene, which is found in carrots. Approved and GRAS food ingredients have been confirmed by research and experts to be safe and effective for their intended uses. (*See sidebar, What is GRAS?*)

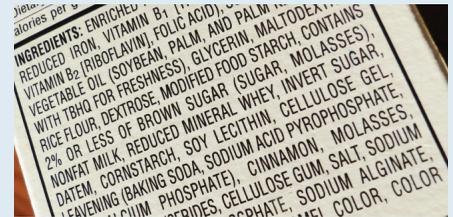
### Ingredients Commonly Found in Foods

Many ingredients have been safely used in foods and beverages for decades and serve unique functions in foods. Without these ingredients, some foods may not be edible or meet consumers' standards for healthfulness, freshness, taste, texture, cost, or appearance.

### What is GRAS?

Food ingredients permitted for use in the U.S. fall into one of two main categories: Food and color additives or Generally Recognized as Safe (GRAS) ingredients.

Both food additives and GRAS ingredients must be shown through scientific research to be safe and not to cause adverse health effects when consumed by the general public. Both must meet strict safety standards before being permitted for use in foods and beverages.



GRAS ingredients must have:

- 1) An established history of safe use and a significant number of people who consumed the ingredient prior to 1958 (when the GRAS law was passed); or
- 2) Scientific information about the safety and use of the ingredient that is widely known and publicly available and agreement among scientific experts that the ingredient is safe for its intended use.

A manufacturer may submit scientific research and other evidence that shows a food ingredient to be GRAS to FDA through a process called GRAS Notification. Although it is a voluntary process, all producers must ensure the safety of their ingredients, and FDA can choose to review or remove an ingredient from the food supply at any time, if it feels there is a safety or public health concern.

<http://www.foodinsight.org>

# QUICK REFERENCE GUIDE to What's in Our Food

## ANTI-CAKING AGENTS

**For example:** Calcium Silicate, Iron, Ammonium Citrate

**Purpose:** Absorb extra moisture; allow ingredients to mix easily so clumps do not form

**Commonly found in:** salt, baking powder, confectioner's sugar

## ARTIFICIAL & NATURAL FLAVORS

**For example:** Butter Flavoring, Vanilla Extract

**Purpose:** Add desired flavor

**Other examples:** salt, ascorbic and citric acid, vanillin, methyl salicylate (wintergreen)

**Commonly found in:** yogurts, cereals, breads, desserts, dressings, soft drinks

**For example:** Caffeine

**Purpose:** Provide a bitter flavor that neutralizes other sour and sweet flavors in beverages

**Commonly found in:** carbonated beverages, energy drinks; also found naturally in coffee, tea, cocoa and chocolate

## DOUGH STRENGTHENERS AND CONDITIONERS

**For example:** Ammonium Sulfate

**Purpose:** Add stability to dough and prevent crumbling

**Commonly found in:** breads and other baked goods

## EMULSIFIERS

**For example:** Soy Lecithin

**Purpose:** Enhance smooth texture; aid dissolving; prevent separation of ingredients

**Other examples:** cellulose, mono- and diglycerides

**Commonly found in:** dressings, peanut butter, chocolate, margarine, frozen desserts

## ENZYMES

**For example:** Rennet (naturally found in cheese)

**Purpose:** Added to impact the rate of reactions between ingredients (ex. curdling milk to make cheese)

**Other examples:** lactase (naturally found in milk), papain (naturally found in papaya)

**Commonly found in:** cheese, dairy products, meat tenderizers

## FATS & OILS

**For example:** Canola Oil, Soybean Oil

**Purpose:** Add taste, aroma and texture

**Other examples:** olive, corn, safflower, and sunflower oils; partially or fully hydrogenated oil; non-hydrogenated oil

**Commonly found in:** vegetable shortening, baked goods, margarine, peanut butter

## FAT REPLACERS

**For example:** Modified Food Starch, Xanthan gum

**Purpose:** Provide creamy texture in reduced-fat foods

**Other examples:** alginate, carrageenan, polydextrose, Olestra

**Commonly found in:** baked goods, dressings, frozen desserts, candies, dessert mixes, dairy products, savory snacks

## FLAVOR ENHANCERS

**For example:** Monosodium Glutamate (MSG)

**Purpose:** Enhance flavors of foods without imparting a separate flavor

**Other examples:** hydrolyzed soy protein, hydrolyzed vegetable protein

**Commonly found in:** soups, flavored rice, bouillon cubes, cured meats

## FOOD COLORS

**For example:** Caramel Coloring, FD&C Yellow No. 5

**Purpose:** Offset color loss due to exposure to light, changes in temperature and/or storage conditions; enhance colors that occur naturally

**Other examples:** annatto extract, beta-carotene, FD&C Blue No. 1, Red No. 40

**Commonly found in:** beverages, candies, snack foods, yogurts, cheese, fruit spreads, pudding

## LEAVENING AGENTS

**For example:** Sodium Bicarbonate (baking soda)

**Purpose:** Promote rising of baked goods

**Other examples:** calcium carbonate, yeast, baking powder

**Commonly found in:** breads and other baked goods

## LOW-CALORIE SWEETENERS

**For example:** Aspartame, Stevia Leaf Extract, Sucralose

**Purpose:** Add sweetness to foods without adding significant calories

**Other examples:** acesulfame potassium (Ace-K), neotame, saccharin

**Commonly found in:** beverages, desserts, tabletop sweeteners, syrups, chewing gum, candies

## POLYOLS (SUGAR ALCOHOLS)

**For example:** Erythritol, Mannitol, Xylitol

**Purpose:** Add sweet taste, body, and smooth texture

**Other examples:** sorbitol, maltitol, hydrogenated starch hydrolysates

**Commonly found in:** sugar-free candies, chewing gums, chocolate, ice cream, tabletop sweeteners

## PRESERVATIVES

**For example:** Ascorbic Acid

**Purpose:** Maintain freshness and prevent or slow food spoilage

**Other examples:** nitrates, nitrites, butylated hydroxytoluene (BHT), citric acid, hydrogenated oils, sodium benzoate

**Commonly found in:** beverages, dressings, baked goods, cured meats, oils, margarine, cheese, cereals

## STABILIZERS, THICKENERS, BINDERS, AND TEXTURIZERS

**For example:** Carrageenan, Gelatin

**Purpose:** Produce uniform texture and maintain consistency in food

**Other examples:** cellulose, hydrogenated oils, xanthan gum, whey

**Commonly found in:** frozen desserts, dairy products, pudding and gelatin mixes, baked goods, sauces

## SWEETENERS

**For example:** High Fructose Corn Syrup, Sucrose (table sugar)

**Purpose:** Add sweetness to foods and beverages while maintaining desired texture

**Other examples:** agave nectar, honey

**Commonly found in:** beverages, maple syrup, molasses, juice concentrates, cereals, desserts, dressings

FOR MORE INFORMATION ON FOOD INGREDIENTS, USE YOUR DIGITAL PHONE TO SCAN THIS CODE



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