SOFT DRINKS

Low-calorie sweeteners have been used safely in soft drinks in Europe since the 1970s. Today there are several different types, each with their own unique taste profile. They are used in a wide range of food and drink products – often in combination – and enjoyed by consumers around the world. Soft drinks containing low-calorie sweeteners include still drinks, carbonates, dilutables, iced teas and flavoured waters.

AT A GLANCE

Used in foods and drinks



Provide a sweet taste with no or few calories



A very small amount delivers a high level of sweetness



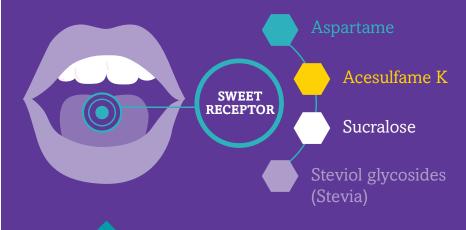
Confirmed as safe by European and international authorities including the European Food Safety Authority (EFSA).



Approved for use in Europe and given:

- an Acceptable Daily Intake (ADI), estimating how much can be consumed every day over a lifetime without a risk to health; and
- an E number for 'Europe' confirming that the food additive is considered to be safe by EFSA and is approved by European regulators for use in foods and drinks

HOW THEY WORK



They bind to the mouth's sweet taste receptors providing a sweet taste

BENEFITS



Provide a sweet taste with no or low sugar and calories, helping people reduce their overall sugars and calorie intake



Help with the management of diabetes as low-calorie sweeteners do not affect blood glucose levels



Assist in weight
management when
consumed in place of
sugars as part of a
weight loss or
maintenance programme



Do not cause tooth decay



There are eleven low-calorie sweeteners approved for use in soft drinks in Europe, and most parts of the world. Let's take a closer look at the four that are most frequently used, either on their own or in combination, to achieve the desired taste profile.

ACESULFAME K

USED IN EUROPE SINCE 1983



Year of Discovery: 1967





APPROVED FOR USE

Extensive studies support the safety of Acesulfame K and demonstrate that it is safe for human consumption













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The Acceptable Daily Intake (ADI) in the EU has been set at 0-9 mg/kg bodyweight. For an adult, without any other source of acesulfame K in the diet, this is equivalent to drinking 6 standard 250ml glasses of soft drink sweetened with acesulfame K at the maximum permitted level every day throughout their life. Soft drinks frequently contain acesulfame K at less than the maximum permitted level.

ASPARTAME

USED IN EUROPE SINCE 1983



Year of Discovery: 1965



Sweetness Index 150-200 times sweeter than sugars

APPROVED FOR USE

Aspartame is one of the most thoroughly tested ingredients ever. Over 200 studies confirm its safety, including the latest EFSA Scientific

Risk Assessment in 2013









x1

The Acceptable Daily Intake (ADI) in the EU has been set at 0-40 mg/kg bodyweight. For an adult, without any other source of aspartame in the diet, this is equivalent to drinking 16 standard 250ml glasses of soft drink sweetened with aspartame at the maximum permitted level every day throughout their life. Soft drinks frequently contain aspartame at less than the maximum permitted level.



Used in very small amounts, less than 1 calorie per 250ml glass The three components of aspartame – phenylalanine, aspartic acid and methanol - are commonly found in nature, including in eggs and tomatoes





People with the inherited disease phenylketonuria (PKU) must avoid consuming phenylalanine, which is present in aspartame. EU law requires any food or drink containing aspartame to clearly indicate the presence of phenylalanine.



STEVIOL GLYCOSIDES (Stevia)

USED IN EUROPE SINCE 2011

E960

Year of Discovery: Natives of Paraguay have been using Stevia widely for over 1,500 years



Sweetness Index 150-200 times sweeter than sugars

The only low-calorie sweetener of natural origin approved in Europe













APPROVED FOR USE

Risk assessment bodies and regulatory agencies around the world have reviewed the safety and authorised the use of steviol glycosides. They include the European Commission (based on safety advice from EFSA), the US Food and Drug Administration, Health Canada, Food Standards Australia/New Zealand and the Food and Agriculture Organisation/WHO global panel of food ingredient experts

CALORIE FREE





The Acceptable Daily Intake (ADI) in the EU has been set at 0-4 mg/kg bodyweight. For an adult, without any other source of steviol glycosides in the diet, this is equivalent to drinking 12 standard 250ml glasses of soft drink sweetened with steviol glycosides at the maximum permitted level every day throughout their life.

SUCRALOSE

USED IN EUROPE SINCE 2000



Year of Discovery: 1976



Sweetness Index 500-600 times sweeter than sugars

APPROVED FOR USE

Extensive studies support the safety of sucralose and demonstrate that it is safe for human consumption









Sucralose is produced from sucrose (table sugar) and is therefore structurally very similar



SUCRALOSE





The Acceptable Daily Intake (ADI) in the EU has been set at 0-15 mg/kg bodyweight. For an adult, without any other source of sucralose in the diet, this is equivalent to drinking 12 standard 250ml glasses of soft drink sweetened with sucralose at the maximum permitted level every day throughout their life. Soft drinks frequently contain sucralose at less than the maximum permitted level.

CALORIE FREE



All products with low-calorie sweeteners carry clear labelling



Sweeteners are always clearly labelled at least twice on soft drinks in the EU. European food labelling legislation requires that the presence of a low calorie sweetener in foods and drinks is indicated on the label as 'With sweetener(s)' next to the description of the product

On a label, an additive must be designated by the name of its functional class, followed by its specific name, or its E number e.g. "sweetener: aspartame" or "sweetener: E951"



Why low-calorie sweeteners are important in soft drinks

PROVIDE THE CONSUMER WITH INNOVATIVE AND GREAT-TASTING SOFT DRINKS WITH:

NO OR LOW IN SUGARS NO OR FEW CALORIES













SUPPORT POLICYMAKERS AND INDUSTRY IN MEETING THEIR SUGAR REDUCTION TARGETS:

