

Medium Chain Triglycerides Foods

In 2000, Powerade became the official sports drink of the Olympics, alongside Aquarius, another sports drink made by Coca-Cola. It is a rival of another sports drink, Gatorade. 2c59b30e3c

Neutral lipid storage disease Normally, the ichthyosis that is present is typically non-bullous congenital ichthyosiform erythroderma which appears as white scaling. It commonly occurs as one of two subtypes, cardiomyopathic neutral lipid storage disease (NLSD-M), or ichthyotic neutral lipid storage disease (NLSD-I) which is also known as Chanarin-Dorfman syndrome), which are characterized primarily by myopathy and ichthyosis, respectively. In the absence of functional ATGL, triglycerides accumulate in the Neutral lipid storage disease (also known as Chanarin-Dorfman syndrome) is a congenital autosomal recessive disorder characterized by accumulation of triglycerides in the cytoplasm of leukocytes (Jordans' anomaly), muscle, liver, fibroblasts, and other tissues. degradation of triglycerides is the main factor in fat accumulation in adipose cells 2c59b30e3c

Caprylic acid It has the structural formula $\text{H}_3\text{C}-(\text{CH}_2)_6-\text{COOH}$, and is a colorless oily liquid that is minimally soluble in water with a slightly unpleasant rancid-like smell and taste. Salts and esters of octanoic acid are known as octanoates or caprylates. or unprotonated caprylic acid. Its compounds are found naturally in the milk of various mammals and as a minor constituent of coconut oil and palm kernel oil. It is a common industrial chemical, which is produced by oxidation of the C8 aldehyde. The name of the related acyl group is octanoyl, capryloyl, or caprylyl. Some studies have shown that medium-chain triglycerides (MCTs) can help in the process of excess calorie burning, and Caprylic acid (from Latin capra 'goat'), also known under the systematic name octanoic acid or C8 acid, is a saturated fatty acid, medium-chain fatty acid (MCFA) 2c59b30e3c

== History == 2c59b30e3c

Powerade Its primary competitor is Gatorade, which is owned by PepsiCo since 2001. (Cyanocobalamin) Vitamin C (Ascorbic acid) Modified food starch Calcium disodium EDTA Medium-chain triglycerides Tartrazine (Yellow 5) Allura Red AC (Red 40) Powerade is a sports drink created and distributed by the Coca-Cola Company since 1988 2c59b30e3c

Two other acids are named after goats via the Latin word capra: caproic acid (C6) and capric acid (C10). Together, these three fatty acids comprise 15% of the fatty acids in goat milk fat. 2c59b30e3c

Tricaprin Tricaprin and other medium-chain triglycerides (MCTs) are either isolated from natural or genetically engineered Tricaprin or tridecanoin is a triglyceride of capric

acid and a component of MCT oil. a hardwood tree native to North America. Its formula is $C_{33}H_{62}O_6$

In July 2002, the Coca-Cola Company started in Toogoolawah by updating the bottles of the standard Powerade (previous logo styling) to a new sport-grip bottle. The redesign came to North America in 2005. They are also present in the blood to enable the bidirectional transference of adipose fat and blood glucose from the liver and are a major component of human skin oils.

Short-chain fatty acid acids Medium-chain fatty acid (MCFA), fatty acid with aliphatic tails of 6 to 12 carbons, which can form medium-chain triglycerides Long-chain fatty acid Short-chain fatty acids (SCFAs) are fatty acids of two to six carbon atoms. SCFAs all possess varying degrees of water solubility, which distinguishes them from longer chain fatty acids that are immiscible. Butyrate is the main energy source of colonocytes, making them crucial to gastrointestinal health. Derived from intestinal microbial fermentation of indigestible foods, SCFAs in human gut are acetic, propionic and butyric acid

== Fatty acids == It has been associated genetically with mutations in the CGI-58 gene (for NLSD-I) or the ATGL/PNPLA2 gene (for NLSD-M). == Sources of MCTs == Axona is a medical food marketed to assist with dietary management of mild to moderate... == Metabolism ==

Triglyceride Animals synthesize A triglyceride (from tri- and glyceride; also TG, triacylglycerol, TAG, or triacylglyceride) is an ester derived from glycerol and three fatty acids. 16, 18, or 20 carbon atoms are defined as long-chain triglycerides, while medium-chain triglycerides contain shorter fatty acids

The concept of fatty acid (acide gras) was introduced in 1813 by Michel Eugène Chevreul, though he initially used some variant terms: graisse acide and acide huileux ("acid fat" and "oily acid").

Axona Cericin, the company that makes Axona, states that during digestion, caprylic triglyceride is broken Axona was previously marketed as a medical food for the clinical dietary management of the impairment of metabolic processes associated with mild to moderate Alzheimer's disease. Its use is based on the idea that the brain's ability to use its normal energy source, glucose, is impaired in Alzheimer's disease. Axona was first sold in March 2009. Cericin, the company that makes Axona, states that during digestion, caprylic triglyceride is broken down into ketones, which provide an alternative energy source for the brain. It is a proprietary formulation of fractionated palm kernel oil (caprylic triglyceride), a medium-chain triglyceride.

Blood lipids Examples of these lipids include cholesterol and triglycerides. In the liver, chylomicron particles release triglycerides and some cholesterol. The liver converts unburned food metabolites Blood lipids (or blood fats) are lipids in the blood, either free or bound to other molecules. Hyperlipidemia is the presence of elevated or abnormal levels of lipids and/or lipoproteins in the blood, and is a major risk factor for cardiovascular disease. the form of triglycerides. The concentration of blood lipids depends on intake and excretion from the intestine, and uptake and secretion from cells. They are mostly transported in a phospholipid capsule, and the type of protein embedded in this outer shell determines the fate of the particle and its influence on metabolism

== Occurrence == 2c59b30e3c Triglycerides are the main constituents of body fat in humans and other vertebrates as well as vegetable fat. 2c59b30e3c == List of SCFAs == 2c59b30e3c

Medium-chain triglyceride a medium-chain fatty A medium-chain triglyceride (MCT) is a triglyceride with two or three fatty acids having an aliphatic tail of 6–12 carbon atoms, i. e. Rich food sources for commercial extraction of MCTs include palm kernel oil and coconut oil. a medium-chain fatty acid (MCFA). A medium-chain triglyceride (MCT) is a triglyceride with two or three fatty acids having an aliphatic tail of 6–12 carbon atoms, i. e 2c59b30e3c

== Description == 2c59b30e3c Many types of triglycerides exist. One specific classification focuses on saturated and unsaturated types. Saturated fats have no C=C groups; unsaturated fats feature one or more C=C groups. Unsaturated fats tend to have a lower melting point than saturated analogues; as a result, they are often liquid at room temperature. 2c59b30e3c Powerade was created by the Coca-Cola Company and first released in 1988. The company developed the soft drink as an alternative to sports drinks, which were becoming more and more popular. Powerade was originally marketed to athletes, who needed a drink that would keep them hydrated during strenuous workouts. 2c59b30e3c

Fatty acid Long-chain fatty acids (LCFAs) are fatty acids with aliphatic tails of 13 to 21 carbons. Most naturally occurring fatty acids have an unbranched chain of an even number of carbon atoms, from 4 to 28. Fatty acids are a major component of the lipids (up to 70% by weight) in some species such as microalgae but in some other organisms are not found in their standalone form, but instead exist as three main classes of esters: triglycerides, phospholipids, and cholesteryl esters. Very long chain fatty acids In chemistry, particularly in biochemistry, a fatty acid is a carboxylic acid with an aliphatic chain, which is either saturated or unsaturated. In any of these forms, fatty acids are both important dietary sources of fuel for animals and important structural components for cells. can form medium-chain triglycerides 2c59b30e3c

MCTs are found in palm kernel oil and coconut oil and can be separated by fractionation. They can also be produced by interesterification. Retail MCT powder is MCT oil embedded in starch and thus contains carbohydrates in addition to fats. It is manufactured by spray drying. 2c59b30e3c == Presentation == 2c59b30e3c Tricaprin occurs naturally in the seeds of *Umbellularia californica*, a hardwood tree native to North America. 2c59b30e3c In 2013, US Food and Drug Administration (FDA) determined Axona was misbranded because the product was labeled and marketed as a medical food but does not meet the statutory definition of a medical food. Axona has not been approved by the FDA as a drug to treat Alzheimer's and the efficacy of managing the health of Alzheimer's patients by use of this medical food has been questioned by experts in the field, including the Alzheimer's Association. 2c59b30e3c == Chemical structure == 2c59b30e3c In 2002, the Coca-Cola Company introduced Powerade Option to the United States, in response to Gatorade's popular Propel. Option is a "low Calorie sports drink" that is colorless and sweetened... 2c59b30e3c In July 2001, the Coca-Cola Company launched a new formula for Powerade including vitamins B3, B6 and B12, which play a role in energy metabolism. 2c59b30e3c == History == 2c59b30e3c

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