LINOLEIC ACID

PRODUCT IN FOCUS

EXSYN®
ESSENTIAL CHEMISTRY

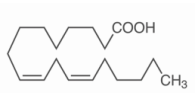
Linoleic Acid

INTRODUCTION

Linoleic acid is a polyunsaturated omega-6 fatty acid. It is a colorless liquid that is virtually insoluble in water but soluble in many organic solvents. It typically occurs in nature as a triglyceride (ester of glycerin) rather than as a free fatty acid.

Manufacture

Linoleic acid is obtained from the hydrolysis -chemical decomposition in which a compound is split into other compounds by reacting with water- of vegetable oils rich in linoleic acid (mainly sunflower and soybean oils). The obtained fatty acid is purified by further distillation.

Synonym	(9Z,12Z)-octadeca-9,12-dienoic acid Telfairic acid
CAS no.	60-33-3
EINECS no.	200-470-9
Molecular formula	$C_{18}H_{32}O_2$
Molecular weight	280.4 g/mol
Structure	

APPLICATIONS

Linoleic acid finds extensive uses in various industries:

- Cosmetic: protects the skin against loss of water and hence is used in moisturizers; it has anti-inflammatory properties and is used for acne reduction.
- Industrial: In the paints industry for manufacture of quick-drying oils which are used in oil paints and varnishes; making soaps, emulsifiers, and surfactants; to manufacture Arachidonic acid which has several health benefits.
- Pharmaceutical: Since it is an essential fatty acid, it is used as a dietary supplement.

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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Yellowish liquid
Color (Fe-Co Method)	-	≤ 3.0
Acid Value	mg KOH/g	195.0 – 205.0
Iodine Value (Wij's method)	gI2/100 g	≥ 145.0
Moisture	%	≤ 0.5
Linoleic acid content (By GC)	%	78.0 – 82.0

PACKING
Export worthy metal drums

STORAGE
Store under Nitrogen. Keep container tightly closed in a dry and well-ventilated place.

REACH Status
Not registered yet

No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.