

Properties

Safety

Price 5

Uses

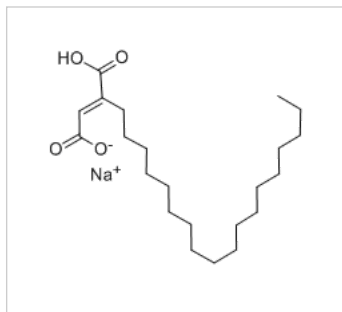
Suppliers 119

Request For Quotation

Sodium Stearyl Fumarate

[ChemicalBook](#) >> [CAS DataBase List](#) >> Sodium Stearyl Fumarate

Sodium Stearyl Fumarate



Sodium Stearyl Fumarate structure

CAS No.	4070-80-8
Chemical Name:	Sodium Stearyl Fumarate
Synonyms	Pruv;Sodium octadecyl;Sod. Stearyl fumarate;SODIUM STEARYL FUMARATE;Sodium stearyl fumarate;Sodium Stearyl FuMarate;SODIUMSTEARYLFUMARATE,NF;SODIUMSTEARYLFUMARATE,FCC;sodium octadecyl fumarate;Sodium stearyl 2-fumarate
CBNumber:	CB8725343
Molecular Formula:	C22H39NaO4
Formula Weight:	390.53
MOL File:	4070-80-8.mol

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Sodium Stearyl Fumarate Properties

solubility	Practically insoluble in water, slightly soluble in methanol, practically insoluble in acetone and in anhydrous ethanol.
form	neat

SAFETY

Hazard Codes	Xi
Risk Statements	36/38
Safety Statements	26
WGK Germany	3

Sodium Stearyl Fumarate price [More Price\(5\)](#)

Manufacturer	Product number	Product description	CAS number	Packaging	Price	Updated	Buy
Sigma-Aldrich	PHR1444	Sodium stearyl fumarate	4070-80-8	1g	\$64.4	2018-11-20	Buy
Sigma-Aldrich	1614705	Sodium stearyl fumarate	4070-80-8	200mg	\$384.65	2018-11-20	Buy
TCI Chemical	S0879	Sodium Stearyl Fumarate >98.0%(T)	4070-80-8	25g	\$52	2018-11-22	Buy
TCI Chemical	S0879	Sodium Stearyl Fumarate >98.0%(T)	4070-80-8	100g	\$162	2018-11-22	Buy
Sigma-Aldrich	S0808000	Sodium stearyl fumarate European Pharma copoeia (EP) Reference Standard	4070-80-8	s0808000	\$179	2018-11-23	Buy

Sodium Stearyl Fumarate Chemical Properties,Uses,Production

Description

Sodium Stearyl Fumarate (SSF) is used as a lubricant in tableting to reduce the friction between the tablet and the die wall and to prevent adhesion of the material to punches or the die wall in the pharmaceutical industries. It is used also as a lubricant in the manufacturing of capsules and other oral dosage forms. Sodium stearyl fumarate is also used in food production as a dough conditioner, a conditioning agent, and a stabilizing agent.

Chemical Properties

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Sodium Stearyl Fumarate

Uses

Sodium Stearyl Fumarate is a dough conditioner and conditioning agent that is a white powder practically insoluble in water. It is used as a dough conditioner in yeast-raised baked goods. It is used as a conditioning agent in dehydrated potatoes. It also functions as a maturing and bleaching agent.

Uses

cationic transfection agent, bile acid sequestrant, vaccine adjuvant, protein stabilizer

Uses

Binder

Production Methods

Stearyl alcohol is reacted with maleic anhydride. The product of this reaction then undergoes an isomerization step followed by salt formation to produce sodium stearyl fumarate.

Pharmaceutical Applications

Sodium stearyl fumarate is used as a lubricant in capsule and tablet formulations at 0.5–2.0% w/w concentration. It is also used in certain food applications.

Safety

Sodium stearyl fumarate is used in oral pharmaceutical formulations and is generally regarded as a nontoxic and nonirritant material.

Metabolic studies of sodium stearyl fumarate in the rat and dog indicated that approximately 80% was absorbed and 35% was rapidly metabolized. The fraction absorbed was hydrolyzed to stearyl alcohol and fumaric acid, with the stearyl alcohol further oxidized to stearic acid. In the dog, sodium stearyl fumarate that was not absorbed was excreted unchanged in the feces within 24 hours.

Stearyl alcohol and stearic acid are naturally occurring constituents in various food products, while fumaric acid is a normal constituent of body tissue. Stearates and stearyl citrate have been reviewed by the WHO and an acceptable daily intake for stearyl citrate has been set at up to 50 mg/kg body-weight. The establishment of an acceptable daily intake for stearates and fumaric acid was thought unnecessary.

Disodium fumarate has been reported to have a toxicity not greatly exceeding that of sodium chloride.

storage

At ambient temperature, sodium stearyl fumarate is stable for up to 3 years when stored in amber glass bottles with polyethylene screw caps.

The bulk material should be stored in a well-closed container in a cool, dry place.

Incompatibilities

Sodium stearyl fumarate is reported to be incompatible with chlorhexidine acetate.

Regulatory Status

GRAS listed. Permitted by the FDA for direct addition to food for human consumption as a conditioning or stabilizing agent in various bakery products, flour-thickened foods, dehydrated potatoes, and processed cereals up to 0.2–1.0% by weight of the food. Included in nonparenteral medicines licensed in the UK. Included in the FDA Inactive Ingredients Database (oral capsules and tablets). Included in the Canadian List of Acceptable Non-medicinal Ingredients.

References

[1] Arne W. Hölzer and John Sjögren, Evaluation of sodium stearyl fumarate as a tablet lubricant, International Journal of Pharmaceutics, 1979, vol. 2, 145-153

[2] Holger Zorn and Peter Czermak, Biotechnology of Food and Feed Additives, 2014

[3] <https://www.fda.gov>

Sodium Stearyl Fumarate Preparation Products And Raw materials

Raw materials

Preparation Products

Sodium Stearyl Fumarate Suppliers

Global(119)Suppliers China 95

Supplier	Tel	Fax	Email	Country	ProdList	Advantage
zhl biotechnology co., ltd	86-13032617415		sales@luchi-biology.com	CHINA	600	58
abei Guanlang Biotechnology Co., Ltd.	+86-0311-66562153 whatsapp p +8615203118427	+86-0311-66562153	sales@crovellbio.com	CHINA	407	50
enzhen Sendi Biotechnology Co.Ltd.	0755-23311925 18102838259	0755-23311925	Abel@chembj.com	CHINA	3203	55