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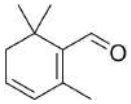
TECHNICAL DATA SHEET

Product name: Safranal



Specifications

Parameters	Specifications	Typical results
Appearance	Colorless to Yellow Liquid	Yellow Clear Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Proton NMR Spectrum	Confirmed	Confirmed
Titration by Hydroxylamine	NLT 90.0%	98.8 %
Purity (GC)	NLT 90.0 %	96.1 %

Stability and storage:

Store in a cool place, ideally at temperatures below 10°C, and avoid prolonged exposure to high temperatures.
Protect from direct sunlight and other sources of intense light, as light can accelerate degradation.
Store in airtight containers to minimize contact with air, which can also contribute to oxidation and degradation.
Keep dry, as moisture can also affect stability.
Avoid strong oxidizing agents, as these can react with safranal and cause it to degrade.
While safranal is generally stable under recommended conditions, prolonged storage may still lead to some degradation. Monitor the quality of the safranal and its solutions regularly.

Application Area:

Safranal is used to create a signature saffron-like aroma in perfumes, adding warmth, spice, and complexity to floral and oriental accords.
It's also used in incense blends to replicate the scent of saffron.
Safranal is used in very small concentrations to mimic the flavor of saffron in various products like liqueurs and bakery items.
It can be used to add a saffron-like flavor to a variety of foods, including beverages and desserts.

General information

CAS No. : 116-26-7
IUPAC Name : 1,3-Cyclohexadiene-1-carboxaldehyde
Synonyms : Dehydro-beta-cyclocitral
EC No. : 204-133-7

Physical/Chemical properties:

Molecular Formula : C10H14O
Molecular Weight : 150.22
Physical state at 20°C : Liquid
Refractive Index : 1.52-1.53
Boiling Point : 70 °C @ 1.00 mm Hg
Solubility : Insoluble in water; soluble in oils
Flash Point : 186 °F
Density : 0.966 g/mL

Hazard classification & labelling:

Single Word : Warning

Pictogram :

Classification according to Regulation (EC) No 1272/2008 : H302,H315,H317, H319,H411

Precautionary statement(s) : P261,P273,P280, P301+P312,P302+P352, P305+P351+P338