

Product Information

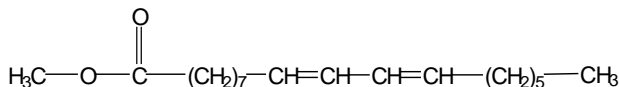
**OCTADECADIENOIC ACID,
CONJUGATED, METHYL ESTER**
Sigma Prod. No. 05632

CAS NO.: N/A

SYNONYM: conjugated linoleic acid
methyl ester

PHYSICAL PROPERTIES:

Appearance: Clear liquid
Molecular formula: $C_{19}H_{34}O_2$
Molecular weight: 294.5



Structure of cis- or trans- 9,11 isomer is shown

STABILITY / STORAGE AS SUPPLIED:

The product is a clear liquid which appears to be completely stable for at least a year (based on unchanged GC), if stored sealed at -20°C. It is packaged under argon to prevent oxidation.

SOLUBILITY / SOLUTION STABILITY:

This product can be dissolved into hexane or chloroform (at 50 mg/mL) to give a clear solution. Solutions should be stored under an inert gas, protected from light, at -20°C.

GENERAL REMARKS:

The product is a mixture of the cis- and trans- isomers of 9,11- and 10,12-octadecadienoic acid methyl esters. The precise isomer ratio varies somewhat from lot to lot. The linoleic acid methyl ester content is less than 1%.

This product is prepared using pure cis-9,cis-12-octadecadienoic acid as starting material; the reaction is monitored for the disappearance of starting material.¹

Typically, two major peaks, two minor peaks appear in the GC assay: about 42% of a mixture cis-9,trans-11 and trans-9,cis-11 which occur as one peak; trans-10,cis-12 is about 44%; cis-10,cis-12 is about 10% and the balance is about 5% of a mixture of other isomers (including includes trans-9, trans-11, etc.).¹

REFERENCES:

1. Supplier information.
2. Sigma quality control.