CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

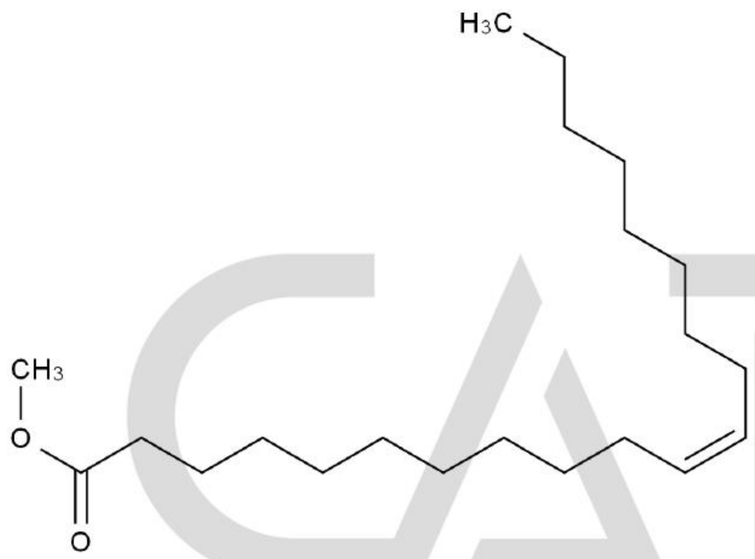
No.: 202604240048

Certificate of Analysis

Reference Material & Standard

Product Name:	cis-11-Eicosenoic Acid Methyl Ester	**Catalogue Number:**	CCFD200400
Synonyms:	N/A	**Lot Number:**	0424-RH-0046
CAS Number:	2390-09-2	**Expiry Date:**	Apr 27, 2030
Molecular Formula:	$C_{21}H_{40}O_2$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	324.54	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.763%
Water Content	Karl Fischer	0.3676%
Assay		99.4%
Uncertainty		±0.2%

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Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Water Content) * Purity GC (%) /100%*
Water Content is considered as absolute effect, GC purity is considered as relative effect.
2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by: Alice Date: Apr 28, 2026

Reviewed by: Lisa Date: Apr 28, 2026

Approved by General Manager: David Date: Apr 28, 2026

CATO Research Chemicals Inc.

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ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

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