

## **Fatty Acid Methyl Esters in 2,2,4-Trimethylpentane**

Art. ID	NIST-8182
Unit	5 x 1.2 mL
Deliverydetails	ADR Excepted Quantity (EQ) / AIR Excepted Quantity (EQ) UN1262 II E2

### Description

This Reference Material (RM) is a solution of 26 fatty acid methyl esters (FAMES) in 2,2,4-trimethylpentane. This RM is intended for use in evaluating analytical methods and chromatographic instrumentation used for the determination of FAMES. A unit of RM 8182 consists of five 2 mL ampoules, each containing approximately 1.2 mL of solution. Due to the original NIST fatty acid determinations in SRM 2377 not being sufficiently traceable to the International System of Units (SI), SRM 2377 no longer meets international quality standards (ISO 17034) for serving as a certified reference material. However, the material continues to meet ISO 17034 standards as a reference material and is thus being offered as RM 8182. /// Sample value(s) - please ask for current report of investigation.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Octanoic acid-methyl ester	[111-11-5]	7,286 ± 0,054	mg/g		
	Decanoic acid methyl ester (Capric acid methyl ester)	[110-42-9]	7,499 ± 0,058	mg/g		
	Dodecanoic acid methyl ester (Lauric acid methyl ester)	[111-82-0]	7,93 ± 0,11	mg/g		
	Tetradecanoic acid methyl ester (Myristic acid methyl ester)	[124-10-7]	7,11 ± 0,13	mg/g		
	Hexadecanoic acid methyl ester (Palmitic acid methyl ester)	[112-39-0]	7,38 ± 0,32	mg/g		
	Octadecanoic acid methyl ester (Stearic acid methyl ester)	[112-61-8]	7,68 ± 0,12	mg/g		
	Eicosanoic acid methyl ester (Arachidic acid methyl ester)	[1120-28-1]	3,66 ± 0,21	mg/g		
	Docosanoic acid methyl ester (Behenic acid methyl ester)	[929-77-1]	4,28 ± 0,10	mg/g		
	Tetracosanoic acid methyl ester (Lignoceric acid methyl ester)	[2442-49-1]	1,807 ± 0,081	mg/g		

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9-Tetradecenoic acid methyl ester (Myristoleic acid methyl ester)	[56219-06-8]	1,894 ± 0,033		mg/g
9-Hexadecenoic acid methyl ester (Palmitoleic acid methyl ester)	[1120-25-8]	5,031 ± 0,039		mg/g
(Z)-9-Octadecenoic acid methyl ester (Oleic acid methyl ester)	[112-62-9]	7,01 ± 0,31		mg/g
9-trans-Octadecenoic acid methyl ester (Elaidic acid methyl ester)	[1937-62-8]	2,02 ± 0,18		mg/g
11-Octadecenoic acid methyl ester (Vaccenic acid methyl ester)	[1937-63-9]	2,31 ± 0,14		mg/g
11-trans-Octadecenoic acid methyl ester (trans-Vaccenic acid methyl ester)	[6198-58-9]	2,368 ± 0,047		mg/g
9,12-Octadecadienoic acid methyl ester (Linoleic acid methyl ester)	[112-63-0]	7,33 ± 0,14		mg/g
9-trans,12-trans-Octadecadienoic acid methyl ester (Linoelaidic acid methyl ester)	[2566-97-4]	2,046 ± 0,015		mg/g
9,12,15-Octadecatrienoic acid methyl ester (alpha-Linolenic acid methyl ester)	[301-00-8]	4,26 ± 0,26		mg/g
6,9,12-Octadecatrienoic acid methyl ester (gamma-Linolenic acid methyl ester)	[16326-32-2]	1,796 ± 0,052		mg/g
11-Eicosenoic acid methyl ester (Gondolic acid methyl ester)	[2390-09-2]	1,919 ± 0,081		mg/g

5,8,11,14-Eicosatetraen oic acid methyl ester ( Arachidonic acid methyl ester)	[2566-89-4]	1,511 ± 0,063	mg/g
5,8,11,14,17-Eicosapent aenoic acid methyl este r (EPA Methyl Ester)	[2734-47-6]	1,526 ± 0,068	mg/g
7,10,13,16,19-Docosapen taenoic acid methyl est er (DPA Methyl Ester)	[108698-02-8]	1,426 ± 0,030	mg/g
4,7,10,13,16,19-Docosah exaenoic acid methyl es ter (DHA Methyl Est)	[2566-90-7]	1,621 ± 0,082	mg/g
13-Docosenoic acid meth yl ester (Erucic acid m ethyl ester)	[1120-34-9]	2,204 ± 0,083	mg/g
15-Tetracosenoic acid m ethyl ester (Nervonic a cid methyl ester)	[2733-88-2]	1,74 ± 0,011	mg/g