

did you know?

We have more than 2,000 pure, characterized, neat compounds in our inventory! If you do not see the EXACT mixture you need listed on any of these pages, call us.

See page 427 for our Custom Reference Materials Request Form.

Fatty Acid Methyl Esters

Marine Oil FAME Mix (20 components)

Chain	Description	% by Weight
C14:0	methyl myristate	6.0
C14:1	methyl myristoleate	1.0
C16:0	methyl palmitate	16.0
C16:1	methyl palmitoleate	5.0
C18:0	methyl stearate	8.0
C18:1	methyl oleate	13.0
C18:1	methyl vaccenate	4.0
C18:2	methyl linoleate	2.0
C18:3	methyl linolenate	2.0
C20:0	methyl arachidate	1.0
C20:1	methyl 11-eicosenoate	9.0
C20:2	methyl 11-14-eicosadienoate	1.0
C20:4	methyl arachidonate	3.0
C20:3	methyl 11-14-17-eicosatrienoate	1.0
C20:5	methyl eicosapentaenoate	10.0
C22:0	methyl behenate	1.0
C22:1	methyl erucate	3.0
C22:6	methyl docosahexaenoate	12.0
C24:0	methyl lignocerate	1.0
C24:1	methyl nervonate	1.0

cat. # 35066 (100mg)

cis/trans FAME Mix (8 components)

Description	% by Weight
methyl elaidate (C18:1 trans-9)	10.0
methyl linoleate (C18:2 cis-9,12)	20.0
methyl oleate (C18:1 cis-9)	10.0
methyl petroselinic acid (C18:1 cis-6)	8.0
methyl petroselinic acid (C18:1 trans-6)	8.0
methyl stearate (C18:0)	20.0
methyl transvaccenate (C18:1 trans-11)	12.0
methyl vaccenate (C18:1 cis-11)	12.0

10mg/mL total in methylene chloride, 1mL/ampul

cat. # 35079 (ea.)

Neat Fatty Acid Methyl Esters

Chain	Description	CAS #	qty.	cat.#
C6:0	methyl caproate	106-70-7	100mg	35037
C7:0	methyl heptanoate	106-73-0	100mg	35038
C8:0	methyl caprylate	111-11-5	100mg	35039
C9:0	methyl nonanoate	1731-84-6	100mg	35040
C10:0	methyl caprate	110-42-9	100mg	35041
C11:0	methyl undecanoate	1731-86-8	100mg	35042
C12:0	methyl laurate	111-82-0	100mg	35043
C13:0	methyl tridecanoate	1731-88-0	100mg	35044
C14:0	methyl myristate	124-10-7	100mg	35045
C14:1 Δ 9 cis	methyl myristoleate	56219-06-8	100mg	35046
C15:0	methyl pentadecanoate	7162-64-1	100mg	35047
C16:0	methyl palmitate	112-39-0	100mg	35048
C16:1 Δ 9 cis	methyl palmitoleate	1120-25-8	100mg	35049
C17:0	methyl heptadecanoate	1731-92-6	100mg	35050
C18:0	methyl stearate	112-61-8	100mg	35051
C18:1 Δ 9 cis	methyl oleate	112-62-9	100mg	35052
C18:2 Δ 9,12 cis	methyl linoleate	112-63-0	100mg	35053
C18:3 Δ 9,12,15 cis	methyl linolenate	301-00-8	100mg	35054
C19:0	methyl nonadecanoate	1731-94-8	100mg	35055
C20:0	methyl arachidate	1120-28-1	100mg	35056
C20:1 Δ 11 cis	methyl eicosenoate	2390-09-2	100mg	35057
C20:2 Δ 11,14 cis	methyl eicosadienoate	2463-02-7	100mg	35058
C20:3 Δ 11,14,17 cis	methyl eicosatrienoate	55682-88-7	100mg	35059
C20:4 Δ 5,8,11,14 cis	methyl arachidonate	2566-89-4	100mg	35060
C21:0	methyl heneicosanoate	6064-90-0	100mg	35061
C22:0	methyl behenate	929-77-1	100mg	35062
C22:1 Δ 13 cis	methyl erucate	1120-34-9	100mg	35063
C24:0	methyl lignocerate	2442-49-1	100mg	35064
C24:1 Δ 15 cis	methyl nervonate	2733-88-2	100mg	35065

Fatty Acid Methyl Esters cont'd

NLEA FAME Mix (28 components)

Chain	% by Weight	Chain	% by Weight
C4:0	1.5	C18:1(cis-9)	15.0
C6:0	1.5	C18:2(all-trans-9,12)	2.5
C8:0	2.0	C18:2(all-cis-9,12)	10.0
C10:0	2.5	C18:3(all-cis-9,12,15)	5.0
C11:0	2.5	C20:0	2.5
C12:0	5.0	C20:1(cis-11)	1.5
C13:0	2.5	C20:5	
C14:0	2.5	(all-cis-5,8,11,14,17)	2.5
C14:1(cis-9)	1.5	C22:0	2.5
C15:0	1.5	C22:1(cis-13)	1.5
C16:0	10.0	C22:6	
C16:1(cis-9)	5.0	(all-cis-4,7,10,13,16,19)	2.5
C17:0	2.5	C23:0	1.5
C18:0	5.0	C24:0	2.5
C18:1(trans-9)	2.5	C24:1(cis-15)	2.5

30mg/mL total in methylene chloride, 1mL/ampul

cat. # 35078 (ea.)

No data pack available.

Food Industry FAME Mix (37 components)

Chain	% by Weight	Chain	% by Weight
C4:0	4.0	C18:3(all-cis-6,9,12)	2.0
C6:0	4.0	C18:3(all-cis-9,12,15)	2.0
C8:0	4.0	C20:0	4.0
C10:0	4.0	C20:1(cis-11)	2.0
C11:0	2.0	C20:2(all-cis-11,14)	2.0
C12:0	4.0	C20:3(all-cis-8,11,14)	2.0
C13:0	2.0	C20:3(all-cis-11,14,17)	2.0
C14:0	4.0	C20:4(all-cis-5,8,11,14)	2.0
C14:1(cis-9)	2.0	C20:5	
C15:0	2.0	(all-cis-5,8,11,14,17)	2.0
C15:1(cis-10)	2.0	C21:0	2.0
C16:0	6.0	C22:0	4.0
C16:1(cis-9)	2.0	C22:1(cis-13)	2.0
C17:0	2.0	C22:2(all-cis-13,16)	2.0
C17:1(cis-10)	2.0	C22:6	
C18:0	4.0	(all-cis-4,7,10,13,16,19)	2.0
C18:1(trans-9)	2.0	C23:0	2.0
C18:1(cis-9)	4.0	C24:0	4.0
C18:2(all-trans-9,12)	2.0	C24:1(cis-15)	2.0
C18:2(all-cis-9,12)	2.0		

30mg/mL total in methylene chloride, 1mL/ampul

cat. # 35077 (ea.)

No data pack available.

free literature

Foods, Flavors, and Fragrances

Includes important analysis tips, and chromatograms for analysis of fats and oils, carbohydrates, vitamins, amino acids, organic acids, preservatives, flavors and fragrances, essential oils, and chiral separations. Retention time indices and complete product listings for all relevant GC and HPLC products also are included.

Minicatalog

lit. cat.# 59260A

Monitoring Volatile

Compounds in Food Contact Packaging, Using Purge and Trap GC/MS and an Rtx[®]-5MS Capillary Column

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Applications Note

lit. cat.# 59348

Quantitative Fatty Acid Methyl Ester (FAME) Mixtures

These mixtures can be used for quantification (AOCS Method CE 1-62) and approximate the compositions of the following types of oils:

- AOCS #1: corn, poppy seed, cotton seed, soybean, walnut, safflower, sunflower, rice, bran, and sesame oil
- AOCS #2: linseed, perilla, hempseed, and rubberseed oil
- AOCS #3: peanut, rapeseed, and mustard seed oil
- AOCS #4: olive, teaseed, and neatsfoot oil
- AOCS #5: coconut, palm kernel, babassu, and ouri-curi oil
- AOCS #6: lard, beef or mutton tallow, and palm oil
- FAME #1: oils of mid-range chain lengths (C16 - C18)
- FAME #2: oils of short to mid-range chain lengths (C6 - C14)
- FAME #3: oils of short to mid-range chain lengths (C8 - C16)
- FAME #4: oils of mid-range to long chain lengths (C16 - C24)

- FAME #5: oils of mid-range to long chain lengths (C16 - C24)
- FAME #6: oils of long chain lengths (C20 - C21)
- FAME #7: oils of short chain lengths (C6 - C10)
- FAME #8: oils of short to mid-range chain lengths (C11 - C15)
- FAME #9: oils of mid-range to long chain lengths (C16 - C20)
- FAME #12: oils of mid-range to long chain lengths (C13 - C21)
- FAME #13: mustard seed oil
- FAME #14: cocoa butter
- FAME #15: peanut oil

ordering note

Custom fatty acid methyl ester mixtures also are available.

Call **800-356-1688** or **814-353-1300**, or contact your Restek representative for details.

Mix	Cat. #	Composition of each mixture listed as a weight/weight % basis (minimum 50mg/ampul)																												
		methyl caproate (6:0)	methyl heptanoate (7:0)	methyl caprylate (8:0)	methyl nonanoate (9:0)	methyl caprate (10:0)	methyl undecanoate (11:0)	methyl laurate (12:0)	methyl tridecanoate (13:0)	methyl myristate (14:0)	methyl pentadecanoate (15:0)	methyl palmitate (16:0)	methyl heptadecanoate (17:0)	methyl stearate (18:0)	methyl oleate (18:1)	methyl linoleate (18:2)	methyl linolenate (18:3)	methyl nonadecanoate (19:0)	methyl arachidate (20:0)	methyl eicosanoate (20:1)	methyl eicosadienoate (20:2)	methyl hono- γ linolenate (20:3)	methyl arachidonate (20:4)	methyl henicosanoate (21:0)	methyl behenate (22:0)	methyl docosadenoate (22:1)	methyl lignocerate (22:2)	methyl nervonate (24:1)		
AOCS #1	35022										6.0	3.0	35.0	50.0	3.0				3.0											
AOCS #2	35023										7.0		5.0	18.0	36.0	34.0														
AOCS #3	35024									1.0	4.0		3.0	45.0	15.0	3.0			3.0							3.0	20.0		3.0	
AOCS #4	35025										11.0		3.0	80.0	6.0															
AOCS #5	35026			7.0	5.0	48.0	15.0				7.0		3.0	12.0	3.0															
AOCS #6	35027									2.0	30.0	3.0	14.0	41.0	7.0	3.0														
FAME #1	35010											20.0		20.0	20.0	20.0														
FAME #2	35011	20.0		20.0	20.0	20.0	20.0																							
FAME #3	35012			20.0	20.0	20.0	20.0				20.0																			
FAME #4	35013											20.0		20.0						20.0							20.0		20.0	
FAME #5	35014											20.0		20.0							20.0						20.0		20.0	
FAME #6	35015																				20.0	20.0	20.0	20.0	20.0					
FAME #7	35016	20.0	20.0	20.0	20.0	20.0																								
FAME #8	35017						20.0	20.0	20.0	20.0	20.0																			
FAME #9	35018										20.0	20.0	20.0							20.0	20.0									
FAME #12	35021								20.0	20.0		20.0																		
FAME #13	35034											3.0	1.0	2.0	20.0	15.0	10.0		1.0	10.0	2.0				1.0	30.0	2.0	1.0	2.0	
FAME #14	35035									0.1	26.3	0.4	0.3	33.7	34.3	3.1	0.2		1.3	0.1					0.2					
FAME #15	35036											10.0		3.0	50.0	30.0			1.5	1.5					3.0				1.0	

Important Information About FAME Mixtures:

We certify that all raw materials used in these mixes have a minimum purity of 99%. The exact composition of each mixture is determined by precise gravimetric techniques, based on a weight/weight % basis, and is confirmed using high resolution capillary gas chromatography. A Certificate of Analysis, supplied with each product, lists mixture composition and analysis conditions and includes a sample chromatogram. Products are packaged by volume and are guaranteed to contain a minimum amount of 50mg/ampul. The FAMES in these are *trans* isomer.

Improper storage or handling after opening may result in accelerated degradation of the unsaturated compounds. All materials must be stored under nitrogen at -18°C to prevent degradation.