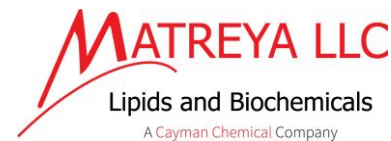


PRODUCT DATA SHEET



FIM-FAME-7 Mixture (quantitative)

Catalog No: 2010

Solvent: Methylene chloride

Storage: -20°C

Column: SP-2560, 100m x 0.25mm x 0.2µm

Oven: 100°C (hold 5 min.) to 230°C @
5°C/min. (hold 19 min.)

Carrier: Helium @ 20cm/sec.

Detector: FID, 250 °C

Injector: 250°C

Elution Order	Carbon Number	COMPONENT NAME	Elution Order	Carbon Number	COMPONENT NAME
1	C4:0	Methyl tetraanoate, (butyrate)	20	C18:2	Methyl octadecadienoate (all <i>cis</i> -9,12), (linoleate)
2	C6:0	Methyl hexanoate (caproate)	21	C20:0	Methyl eicosanoate (arachidate)
3	C8:0	Methyl octanoate (caprylate)	22	C18:3	Methyl octadecatrienoate (all <i>cis</i> -6,9,12), (<i>gamma</i> -linolenate)
4	C10:0	Methyl decanoate (caprate)	23	C20:1	Methyl eicosenoate (<i>cis</i> -11), (gondoate)
5	C11:0	Methyl undecanoate (hendecanoate)	24	C18:3	Methyl octadecatrienoate (all <i>cis</i> -9,12,15), (linolenate)
6	C12:0	Methyl dodecanoate (laurate)	25	C21:0	Methyl heneicosanoate
7	C13:0	Methyl tridecanoate	26	C20:2	Methyl eicosadienoate (all <i>cis</i> -11,14)
8	C14:0	Methyl tetradecanoate (myristate)	27	C22:0	Methyl docosanoate (behenate)
9	C14:1	Methyl tetradecenoate (<i>cis</i> -9), (myristoleate)	28	C20:3	Methyl eicosatrienoate (all <i>cis</i> -8,11,14), (<i>homogamma</i> -linolenate)
10	C15:0	Methyl pentadecanoate	29	C22:1	Methyl docosenoate (<i>cis</i> -13), (erucate)
11	C15:1	Methyl pentadecenoate (<i>cis</i> -10)	30	C20:3	Methyl eicosatrienoate (all <i>cis</i> -11,14,17)
12	C16:0	Methyl hexadecanoate (palmitate)	31	C20:4	Methyl eicosatetraenoate (all <i>cis</i> -5,8,11,14), (arachidonate)
13	C16:1	Methyl hexadecenoate (<i>cis</i> -9), (palmitoleate)	32	C23:0	Methyl tricosanoate
14	C17:0	Methyl heptadecanoate (margarate)	33	C22:2	Methyl docosadienoate (all <i>cis</i> -13,16)
15	C17:1	Methyl heptadecenoate (<i>cis</i> -10)	34	C24:0	Methyl tetracosanoate (lignocerate)
16	C18:0	Methyl octadecanoate (stearate)	35	C20:5	Methyl eicosapentaenoate (all <i>cis</i> -5,8,11,14,17)
17	C18:1	Methyl octadecenoate (<i>trans</i> -9), (elaidate)	36	C24:1	Methyl tetracosenoate (<i>cis</i> -15), (nervonate)
18	C18:1	Methyl octadecenoate (<i>cis</i> -9), (oleate)	37	C22:6	Methyl docosahexaenoate, (all <i>cis</i> -7,10,13,16,19)
19	C18:2	Methyl octadecadienoate (all <i>trans</i> -9,12), (linoelaidate)			

Application notes:

This fatty acid methyl ester mixture contains 37 fatty acids for the identification and quantification of unknowns.¹ It is prepared from high purity stock material and contains saturated and unsaturated fatty acids. This mixture is very useful for bacterial identification,² triglyceride determination and the analysis of various plant and animal lipids.³ Understanding the role of fatty acids and fatty acid metabolism in plants and animals is important in drug development.

Selected References:

1. T. Murata "Analysis of fatty acid methyl esters by a gas-liquid chromatography-chemical ionization mass spectrometry computer system" *Journal of Lipid Research*, Vol. 19:166, 1978
2. N. Rozès et al. "A rapid method for the determination of bacterial fatty acid composition" *Applied Microbiology*, Vol. 3:17 pp.126, 1993
3. D. Welch "Applications of cellular fatty acid analysis" *Clinical Microbiology Reviews*, Vol. 4:4 pp. 422, 1991

This product is to be used for research only. It is not intended for drug or diagnostic use, human consumption or to be used in food or food additives. Matreya assumes no liability for any use of this product by the end user. We believe the information, offered in good faith, is accurate.