

PRODUCT DATA SHEET

RM-2 Mixture (AOCS) (quantitative)

Suitable standard for linseed, perilla, hempseed, and rubberseed oils

Catalog number:	1085	Column:	RTX-2330, 30 x 0.25mm x
Solvent:	none		0.2 μ m
Storage:	-20°C	Oven:	180°C
Concentration:	neat	Carrier:	helium @ 20cm/sec.
Source:	synthetic or plant	Detector:	FID, 250°C
		Injector:	250°C

GC Conditions:

<u>Elution Order</u>	<u>Carbon Number</u>	<u>Component Name</u>	<u>% Conc. by weight</u>
1	C16:0	Methyl hexadecanoate; (palmitate)	7.0
2	C18:0	Methyl octadecanoate; (stearate)	5.0
3	C18:1	Methyl octadecenoate (<i>cis</i> -9); (oleate)	18.0
4	C18:2	Methyl octadecadienoate (all <i>cis</i> -9,12); (linoleate)	36.0
5	C18:3	Methyl octadecatrienoate (all <i>cis</i> -9,12,15); (linolenate)	34.0

Application Notes:

This fatty acid reference mixture contains saturated and mono and polyunsaturated fatty acid methyl esters for the qualitative identification and quantitation of unknowns. This AOCS RM mixture is especially ideal as a standard for linseed, perilla, hempseed, and rubberseed oils. By studying problems with the quantitative analysis of animal and vegetable oils and fats, the American Oil Chemists' Society has found certain mixtures to be useful as reference standards. The composition of each mixture is similar to the fatty acid distribution of certain oils. This is an excellent standard for identifying unknown fatty acid isomers in samples.

All materials are analyzed to verify their identity and to determine their purity. All analytes are 98+% pure. This standard is accurately prepared by gravimetric technique (+/- 0.5%) and all glassware is class A rated. Ampules are purged with nitrogen/argon before and after filling and chilled before being flame sealed. Store ampules sealed as received and process without delay immediately after opening the ampule.

Selected References:

1. M. Or-Rashid, N. Odongo and B. McBride, "Fatty acid composition of ruminal bacteria and protozoa, with emphasis on conjugated linoleic acid, vaccenic acid, and odd-chain and branched-chain fatty acids" *Journal of Animal Science* vol. 85 pp. 1228, 2007
2. Y-M Zhang, S. White, and C. Rock "Inhibiting Bacterial Fatty Acid Synthesis" *The Journal of Biological Chemistry* vol. 281 pp. 17541, 2006
3. N. Rozès, S. Garbay, M. Denayrolles, A. Lonvaud-Funel "A rapid method for the determination of bacterial fatty acid composition" *Applied Microbiology* vol. 3(17) pp. 126, 1993

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.