

PRODUCT DATA SHEET

RM-1 Mixture (AOCS, quantitative)

Catalog No: 1084

Solvent: None

Storage: -20°C

<u>Component:</u>	<u>Name:</u>	<u>% Conc. By Weight</u>
C16:0	Methyl hexadecanoate (palmitate)	6.0
C18:0	Methyl octadecanoate (stearate)	3.0
C18:1 (<i>cis</i> -9)	Methyl octadecenoate (<i>cis</i> -9), (oleate)	35.0
C18:2 (all <i>cis</i> -9,12)	Methyl octadecadienoate (all <i>cis</i> -9,12), (linoleate)	50.0
C18:3 (all <i>cis</i> -9,12,15)	Methyl octadecatrienoate (all <i>cis</i> -9,12,15), (linolenate)	3.0
C20:0	Methyl eicosanoate (arachidate)	3.0

Application Notes:

This methyl ester mixture contains 6 naturally occurring fatty acid methyl esters that are for the quantitative identification of unknowns. The mixture is prepared from high purity stock material and contains saturated and unsaturated fatty acid methyl esters that are ready for GC analysis. 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.

Selected References:

1. Z. Li, T. Gu, B. Kelder and J. J. Kopchick "Analysis of fatty acids in mouse cells using reversed-phase high-performance liquid chromatography" *Chromatographia*, Oct. Vol. 54 pp. 463-467 2001
2. L. D. Metcalfe, A. A. Schmitz, J. R. Pelka "The Rapid Preparation of Fatty Acid Esters from Lipids for Gas Chromatographic Analysis" *Analytical Chemistry*, March, Vol. 38(3) pp. 514-515 1966

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