

## PRODUCT DATA SHEET

### GLC-10 Mixture (quantitative)

**Catalog number:** 1095  
**Storage:** -20°C  
**Concentration:** neat  
**Quantity:** 50mg  
**Solubility:** methylene chloride

#### GC Conditions:

<b>Column:</b>	SP2330 or RTX 2330	<b>Linear Velocity:</b>	20cm/sec
<b>Carrier Gas:</b>	helium	<b>Program Rate:</b>	isothermal
<b>Make-up Gas:</b>	helium	<b>Hold Time:</b>	N/A
<b>Split Ratio:</b>	100:1	<b>Injector:</b>	250°C
<b>Oven:</b>	190°C		
<b>Detector:</b>	250°C		

Elution Order	Carbon Number	Component Name	% Conc. by weight
1	C16:0	Methyl hexadecanoate, (palmitate)	20
2	C18:0	Methyl octadecanoate, (stearate)	20
3	C18:1	Methyl octadecenoate ( <i>cis</i> -9), (oleate)	20
4	C18:2	Methyl octadecadienoate (all <i>cis</i> -9,12), (linoleate)	20
5	C18:3	Methyl octadecatrienoate (all <i>cis</i> -9,12,15), (linolenate)	20

#### **Application Notes:**

This fatty acid mixture contains several long-chain fatty acid methyl esters for the quantitative identification and quantitation of unknowns. 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 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. 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. 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

---

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.