

PRODUCT DATA SHEET

Cis-Trans FAME Isomer Standard Mixture

Catalog No.: 1131

Common Name: Fatty Acid Methyl Ester
Isomer Standard (Qualitative)

Source: soy

Solubility: chloroform, methylene chloride

Storage: -20°C

GC Conditions

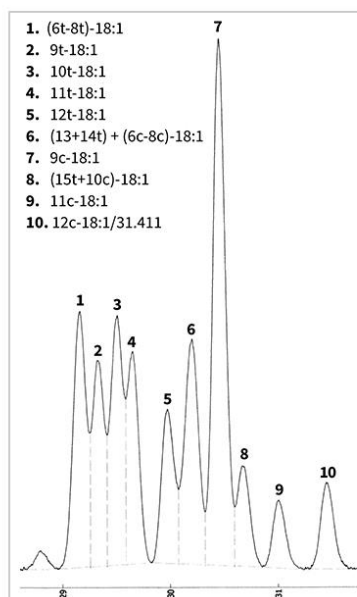
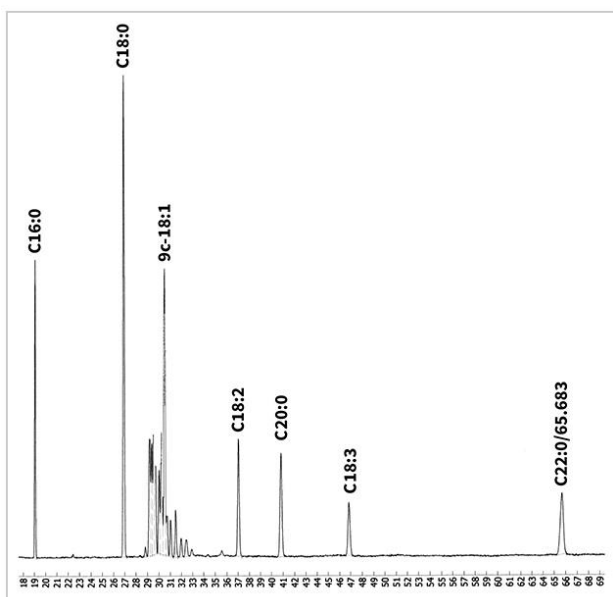
Column: SP-2560 100m x 0.25mm x 0.20µm

Oven: 175°C isothermal

Carrier: Helium @ 20ml/sec.

Detector: FID, 250 °C

Injector: 200°C



ELUTION CARBON ORDER

1. C16:0
2. C18:0
3. C18:1 (6-trans,8-trans)
4. C18:1 (9-trans)
5. C18:1 (10-trans)
6. C18:1 (11-trans)
7. C18:1 (12-trans)
8. C18:1 (13-trans,14-trans,6-cis,8-cis)
9. C18:1 (9-cis)
10. C18:1 (15-trans,10-cis)
11. C18:1 (11-cis)
12. C18:1 (12-cis)
13. C18:2
14. C20:0
15. C18:3

Application notes:

This fatty acid methyl ester mixture contains cis and trans isomers of several fatty acids in methylene chloride for the qualitative identification of unknowns. The product is a naturally occurring mixture from soybean and is an excellent standard for identifying unknown fatty acid isomers in samples. Because it is extracted from natural sources, relative peak sizes for the mixture may vary from lot to lot. This is a qualitative mixture and should not be used for quantitative purposes.

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
3. Isomer identification from: W.M. Nimal Ratnayake, Journal of AOAC International, Vol. 87 pp. 523-539, 2004

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.