



### Search

The screenshot shows the METHODS NOW search interface. At the top left, there is a 'CAS Solutions' dropdown menu and the METHODS NOW logo. On the top right, there are links for 'Saved' (with a star icon) and 'Account' (with a person icon). A callout box points to these links with the text: 'Access previously saved searches.'

The main search area features a large search bar with the placeholder text 'Enter keyword, matrix, analyte, etc.' and a search button with a magnifying glass icon. A callout box points to the search bar with the text: 'Enter keywords to search for methods. Then click [magnifying glass icon].'

Below the search bar is an 'Advanced Search' link. A callout box points to it with the text: 'Use **Advanced Search** to combine multiple queries using logical operators.'

Underneath is a 'Browse Method Categories' section with a grid of category links. A callout box points to the 'Pharmacology / Toxicology' link with the text: 'Browse for methods by clicking a category.'

At the bottom, there is a 'Recent Searches' section with a list of search queries. A callout box points to the list with the text: 'Click the title to rerun a recent search. Click [X icon] to remove title from list.'

The 'Recent Searches' list includes:

- Browse: Biomarker Biological Process
- Advanced : analyte : palmitic acid, matrix : blood plasma
- "bioactive agents"

# Advanced Search

← [Return to Home](#)

## Advanced Search

Choose the search field: Keyword, Analyte, Matrix, Method Category, Technique, CAS Method Number, Publication Name.

Enter the query for the search field.

Analyte ▼ palmitic acid

Choose the logical operator: AND, OR, NOT. AND ▼

Matrix ▼ blood plasma

Click to remove a query. ✕

Add Search Criteria

Click to add another query.

Search

Clear

Click to execute search.

Click to reset form.

The image shows a screenshot of an 'Advanced Search' web interface. At the top left, there is a link 'Return to Home'. The main heading is 'Advanced Search'. Below this, there are two search criteria. The first is for 'Analyte' with a dropdown arrow, and the input field contains 'palmitic acid'. The second is for 'Matrix' with a dropdown arrow, and the input field contains 'blood plasma'. Between these two criteria is a dropdown for a logical operator, currently set to 'AND'. To the right of the second input field is a small 'x' icon for removing the query. Below the search criteria is a button labeled 'Add Search Criteria' with a left-pointing arrow, and a callout box pointing to it says 'Click to add another query.'. At the bottom of the search area are two buttons: a dark purple button with a magnifying glass icon labeled 'Search', and a light grey button labeled 'Clear'. Callout boxes point to these buttons with the text 'Click to execute search.' and 'Click to reset form.' respectively. A large callout box at the top explains the search field options: 'Choose the search field: Keyword, Analyte, Matrix, Method Category, Technique, CAS Method Number, Publication Name.'

# Results

**Results (6)**

1 selected

**Analysis of Palmitic acid in Blood plasma by High-performance liquid chromatography-mass spectrometry**  
CAS MN: 2-107-CAS-39800

[View Details & Instructions](#)

Analyte: Palmitic acid; Heptadecanoic acid

Matrix: [redacted]

Other M: [redacted] (2.7 μm, 2.1 x 150 mm) column

Method Category: Bioassay

Technique: High-performance liquid chromatography-mass spectrometry; Extraction

Equipment Used: Liquid chromatography (LC) system; mass spectrometer (MS); Speed Vac

Source: **Rapid measurement of plasma free fatty acid concentration and isotopic enrichment using LC/MS**  
Persson, Xuan-Mai T.; Blachnio-Zabielska, Agnieszka Urszula; Jensen, Michael D.  
Journal of Lipid Research (2010), 51 (9), 2761-2765. American Society for Biochemistry and Molecular Biology, Inc.

[Full Text](#) [Abstract](#)

Sort Relevance

Export methods to PDF or XLS format.

Save methods.

Compare (2/3)

Add to Compare

Return to Advanced Search

Analyte

- Palmitic acid (6)
- Arachidonic acid (5)
- Oleic acid (5)

Blood plasma (6)

Method Category

- Biomolecule Isolation Assay (3)
- Fatty Acid Analysis (2)
- Bioassay (1)

Technique

Year

- 2010 (6)
- 2005 (4)
- 2011 (4)
- 2009 (3)
- 2008 (2)

[View All](#)

Select individual methods to export or save, or check box at top of page to select all methods on page.

Click method title or **View Details & Instructions** to view method details.

Click **Add to Compare** to select methods for comparison. Click **Compare** to view selected methods in a comparison table.

Click **Full Text** to access options to obtain full text documents. Click **Abstract** to display the abstract.

Sort methods by **Relevance** or **Publication Year**.



Check box(es) to filter methods by data values.

# Method Detail

[← Return to Results](#)

## Method Detail (2 of 14)



[←](#) [Prev](#) [Next](#) [→](#)

**Analysis of (9Z)-9-Hexadecenoic acid in Blood plasma by High-performance liquid chromatography-tandem mass spectrometry**

CAS MN: 1-122-CAS-28049

**Method Category:** Fatty Acid Analysis  
**Technique:** High-performance liquid chromatography-tandem mass spectrometry

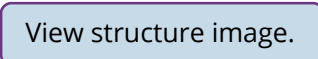
 Export method to PDF or XLS format.  
 Save method.

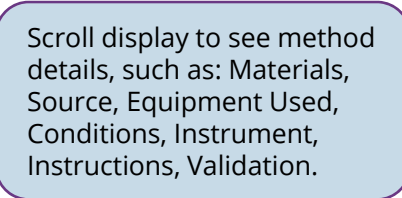
Materials	Role	Image	CAS RN
(9Z)-9-Hexadecenoic acid	analyte	<a href="#">View Structure</a>	373-49-9
<b>Palmitic acid</b>	analyte	<a href="#">View Structure</a>	57-10-3
Octadecanoic acid	analyte	<a href="#">View Structure</a>	57-11-4
Oleic acid	analyte	<a href="#">View Structure</a>	112-80-1
<b>Blood plasma</b>	matrix		
Column-1.9- $\mu$ m Thermo Hypersil Gold C8 column 3.0 $\times$ 100 mm	material		

**Source**

**Fatty acid desaturation index in human plasma: comparison of different analytical methodologies for the evaluation of diet effects**

Klawitter, Jost; Bek, Stephan; Zakaria, Marjorie; Zeng, Chenhui; Hornberger, Andrea; Gilbert, Richard; Shokati, Touraj; Klawitter, Jelena; Christians, Uwe; Boernsen, K. Olaf

 View structure image.

 Scroll display to see method details, such as: Materials, Source, Equipment Used, Conditions, Instrument, Instructions, Validation.

# Compare Methods

## Compare Methods

Export the comparison table.



Click X to remove method from the table.

Expand All data items on table or Collapse All.

Expand All | Collapse All

	1	2	3
Title	Analysis of Palmitic acid in Blood plasma by Solid phase extraction	Analysis of Palmitic acid in Blood plasma by High-performance liquid chromatography-mass spectrometry <a href="#">View Less ^</a>	Analysis of Oleic acid in Blood plasma by Hydrophilic interaction liquid chromatography <a href="#">View Less ^</a>
CAS Method Number	1-122-CAS-42691	2-107-CAS-39800	2-114-CAS-73714
Method Category	Fatty Acid Analysis	Bioassay	Biomolecule Isolation Assay
Technique	Solid phase extraction; Gas chromatography	High-performance liquid chromatography-mass spectrometry; Extraction	Mass spectrometry; Hydrophilic interaction liquid chromatography
Analyte	Linoleic acid; Heptadecanoic acid; Stearic acid; Palmitic acid; Linolenic acid; Oleic acid; <a href="#">View All v</a>	Heptadecanoic acid; Palmitic acid; Fatty acids	Palmitic acid; Arachidonic acid; Oleic acid; Palmitoleic acid
Matrix	Blood plasma	Blood plasma	Blood plasma
Other Materials	LiChrolut vacuum manifold; 8 mL LiChrolut glass column; DB-23	Ascentis C18 (2.7 μm, 2.1 x 150 mm) column	Acquity UPLC BEH HILIC column (1.7 μm; 100 x 2.1

Collapse data item.

Expand data item