



57334-U Supelco

SPME fiber assembly Carboxen/Polydimethylsiloxane (CAR/PDMS)

df 85 µm, needle size 24 ga, for use with manual holder, StableFlex fiber



FDS

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df 75 µm, for use with manual holder, needle size 24 ga

57335U
SPME fiber assembly Carboxen/Polydimethylsiloxane (CAR/PDMS)
df 85 µm, needle size 24 ga, StableFlex, for use

Properties

Related Categories	Analytical/Chromatography, Carboxen/Polydimethylsiloxane (CAR/PDMS) fibers, SPME Fiber Assemblies, SPME Fibers and Holders, Sample Preparation & Purification, Plus...
material	StableFlex fiber
	light blue hub plain
needle size	24 ga
packaging	pkg of 3 ea
df	85 µm
fiber L	1 cm
matrix active group	Carboxen/Polydimethylsiloxane (CAR/PDMS) coating
	montrer plus (10)

Description

General description
For Gases and Low Molecular Weight Compounds (MW 30-225)

Safety Information

Safety Information for this product is unavailable at this time.

Documents

Certificat d'Analyse

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df 65 µm, needle size 24 ga, StableFlex, for use with manual holder



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df 85 µm, needle size 23 ga, StableFlex, for use with autosampler



57328U
SPME fiber assembly Divinylbenzene/Carboxen/Polydimethylsiloxane (DVB/CAR/PDMS)
needle size 24 ga, for use with manual holder



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Frank Michel¹, Yong Chen², Robert Shirey²

¹ Sigma-Aldrich (part of Merck KGaA, Darmstadt, Germany), Taufkirchen, Germany ² MilliporeSigma, Bellefonte PA, USA

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Keywords: Solid phase microextractions

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Julien Janusziewicz et. al

Journal of chromatography. A, 1195(1-2), undefined (2008-5-23)

A headspace solid-phase microextraction (HS-SPME) combined with gas chromatography-mass spectrometry (GC/MS) method was developed using experimental designs to quantify the flavor of commercial Cheddar cheese and enzyme-modified Cheddar cheese (EMCC)...[Read More](#)

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P López et. al

Journal of chromatography. A, 1216(3), undefined (2008-9-3)

Brominated flame retardants (BFRs) are the chemicals of high importance within the REACh framework. In addition to polybrominated diphenyl ethers (PBDEs), hexabromocyclododecane (HBCD) and tetrabromobisphenol A (TBBPA), other BFRs such as bromophenol...[Read More](#)

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[Optimization of a derivatization-solid-phase microextraction method for the analysis of thirty phenolic pollutants in water samples.](#)

Maria Llompart et. al

Journal of chromatography. A, 963(1-2), undefined (2002-8-22)

Solid-phase microextraction (SPME) coupled to gas chromatography-mass spectrometry has been applied to the extraction of 30 phenol derivatives from water samples. Analytes were in situ acetylated and headspace solid-phase microextraction was performed...[Read More](#)

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Oscar Ezquerro et. al

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Multiple headspace-solid phase microextraction (MHS-SPME) is a recently developed technique for the quantification of analytes in solid samples that avoids the matrix effect. This method implies several consecutive extractions from the same sample. I...[Read More](#)

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[Method optimization by solid-phase microextraction in combination with gas chromatography with mass spectrometry for analysis of beer volatile fraction.](#)

Olivia Pinho et. al

Journal of chromatography. A, 1121(2), undefined (2006-5-12)

A simple and sensitive method for the analysis of beer volatile compounds was optimised using headspace solid-phase microextraction (SPME) and gas chromatography with mass detection. Headspace SPME using a 75 µm Carboxen-polydimethylsiloxane (CAR...[Read More](#)

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[Solid-phase microextraction method for the determination of volatile compounds associated to oxidation of fish muscle.](#)

Jacobo Iglesias and Isabel Medina

Journal of chromatography. A, 1192(1), undefined (2008-4-2)

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[Determination of volatile organic compounds in recycled polyethylene terephthalate and high-density polyethylene by headspace solid phase microextraction gas chromatography mass spectrometry to evaluate the efficiency of recycling processes.](#)

Camila Dutra et. al

Journal of chromatography. A, 1218(10), undefined (2011-2-5)

A method for the determination of volatile organic compounds (VOCs) in recycled polyethylene terephthalate and high-density polyethylene using headspace sampling by solid-phase microextraction and gas chromatography coupled to mass spectrometry detected...[Read More](#)

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[Quantitative analysis of volatiles from solid matrices of vegetable origin by high concentration capacity headspace techniques: determination of furan in roasted coffee.](#)

Carlo Bicchi et. al

Journal of chromatography. A, 1218(6), undefined (2011-1-5)

The study compares standard addition (SA), stable isotope dilution assay (SIDA) and multiple headspace extraction (MHE) as methods to quantify furan and 2-methyl-furan in roasted coffee with HS-SPME-GC-MS, using CAR-PDMS as fibre coating, d(4)-furan ...[Read More](#)

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[Determination of benzene, toluene, ethylbenzene and xylenes in air by solid phase micro-extraction/gas chromatography/mass spectrometry.](#)

Simonetta Tumbiolo et. al

Analytical and bioanalytical chemistry, 380(5-6), undefined (2004-11-2)

The aim of the study was to analyse BTEX compounds (benzene, toluene, ethylbenzene, xylenes) in air by solid phase micro-extraction/gas chromatography/mass spectrometry (SPME/GC/MS), and this article presents the features of the calibration method proposed...[Read More](#)

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[Simultaneous chemical and sensory characterization of volatile organic compounds and semi-volatile organic compounds emitted from swine manure using solid phase microextraction and multidimensional gas chromatography-mass spectrometry-olfactometry.](#)

Yin-Cheung M Lo et. al

Journal of environmental quality, 37(2), undefined (2008-4-10)

Swine manure is associated with emissions of odor, volatile organic compounds (VOCs) and other gases that can affect air quality on local and regional scales. In this research, a solid phase microextraction (SPME) and novel multidimensional gas chromatography-mass spectrometry...[Read More](#)

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[Determination of benzene, toluene, ethylbenzene, xylenes in water at sub-ng l-1 levels by solid-phase microextraction coupled to cryo-trap gas chromatography-mass spectrometry.](#)

Maw-Rong Lee et. al

Chemosphere, 69(9), undefined (2007-6-22)

A trace analytical method of benzene, toluene, ethylbenzene and xylenes (BTEX) in water has been developed by using headspace solid-phase microextraction (HS-SPME) coupled to cryo-trap gas chromatography-mass spectrometry (GC-MS). The chromatographic...[Read More](#)

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[Analytical performance of three commonly used extraction methods for the gas chromatography-mass spectrometry analysis of wine volatile compounds.](#)

I Andujar-Ortiz et. al

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The analytical performance of three extraction procedures based on cold liquid-liquid extraction using dichloromethane (LLE), solid phase extraction (SPE) using a styrene-divinylbenzene copolymer and headspace solid phase microextraction (SPME) using ...[Read More](#)

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[Comparison of SPME and static headspace analysis of blood alcohol concentration utilizing two novel chromatographic stationary phases.](#)

Jessica L Westland and Frank L Dorman

Forensic science international, 231(1-3), undefined (2013-7-10)

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Niels Bjerg Jensen et. al

Nature communications, 2, undefined (2011-4-21)

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