PRODUCT INFORMATION SHEET

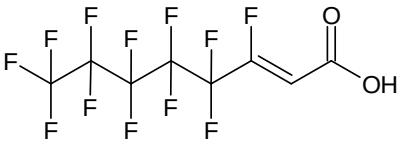
REFERENCE MATERIAL

Certificate no.: 15264.8-30400-2

1. Description of the reference material (RM)

1.1. General product data

Catalogue #:	**15264.8-50-ME**
Product name:	2H-Perfluoro-2-octenoic acid
Chemical name:	(2Z)-3,4,4,5,5,6,6,7,7,8,8,8-Tetradecafluoro-2-octenoic acid
Synonym:	6:2 FTUCA; 6:2 fluorotelomer unsaturated carboxylic acid
Expiry date:	2033/07
Long-term storage:	-20 °C ± 5 °C. Protect from air and light.
Short-term storage:	This product is suitable for transit at ambient temperatures.
CAS #:	[70887-88-6]
Molecular formula:	$C_8H_2F_{12}O_2$
Molecular weight (g/mol):	358.08
Structure:	



1.2. Batch specific data

Batch #:	**30400**
Concentration (grav.):	**50 ± 0.2 µg/mL, adjusted for chromatographic purity**
Solvent:	Methanol
Volume:	Not less than 1 mL
Appearance:	Clear colourless solution

1.3. Chemical analysis of neat material

Analysis/Calculation	Method #	Results
Chromatographic purity by LC-MS:	1202-3.1*	98.6 %
Identity by LC-MS:	1202-3.1	Complies
Isomer profile:	Internal*	Branched isomers: 0 %
	Internal*	Linear isomers: 100 %
Residue on ignition by TGA:	N/A	Not assessed
Loss on drying by TGA:	N/A	Not assessed
Structural confirmation by ^{1}HNMR:	Internal*	Complies
Structural confirmation by ^{13}CNMR:	Internal*	Complies
Structural confirmation by ^{19}FNMR:	Internal*	Complies

Not an accredited analysis.

1.4. Homogeneity and stability assessment

Homogeneity has been assessed. Product is found to be sufficiently homogeneous for its intended use.

Stability has been assessed. Product is found to be sufficiently stable within the period of validity.

2. General information

2.1. Statement of quality

Chiron AS is accredited by ANSI National Accreditation Board (ANAB) as registered reference material producer AR-2922 in accordance with ISO 17034 and registered testing laboratory AT-2635 according to ISO/IEC 17025.

2.2. Intended use of the RM

This reference material is intended for laboratory use only. It may be used for identification, quality control, calibration or assigning values. A reference material should only be used for a single purpose in a given measurement. It is not suitable for human or animal consumption.

2.3. Instruction for use of the RM

Before first use, allow the RM to reach room temperature, if applicable, and invert the ampoule several times to achieve homogeneity before opening. Sonicate for 5 minutes at room temperature if suspended material is observed in the ampoule. Tap the cap slightly to remove any excess liquid before opening.

If storage is required after opening, make sure to close the cap tightly and keep away from light and moisture. RMs in sealed ampules should be transferred to vials with minimum headspace.

This product is supplied with an overfill to assist recovery of the specified quantity. Users should transfer a measured volume before diluting to the desired concentration.

The gravimetric concentration is calculated by gravimetric measurements of both compound and solvent. Solvent density is taken into account. The concentration has been corrected for chromatographic purity, and salt/conjugated acid where available. No further adjustment is required prior to use.

2.4. Metrological traceability

This RM has been gravimetrically produced using balances that are calibrated annually by an ISO/IEC 17025 accredited calibration service. Calibration verification is performed daily using routinely controlled check weights that are metrologically traceable to the International System of Units (SI) through an unbroken chain of comparisons.

2.5. Uncertainty

Uncertainty (U) is expressed as an expanded uncertainty in accordance with ISO/IEC 17025 and ISO 17034 at the approximate 95 % confidence interval using a coverage factor of k = 2. It has been calculated by statistical analysis of our sample preparation and incorporates uncertainty of material density, gravimetric measurement of neat material and gravimetric measurement of solvent.

2.6. Retest/expiry information

The expiry date is based on current knowledge and on the unopened container being stored according to the recommended storage conditions stated in this document. Warranty can only be guaranteed when following these storage recommendations.

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REFERENCE MATERIAL

2.7. Safety

All reference materials should be considered potentially hazardous and should only be used by qualified laboratory personnel. Users should minimize their exposure and use appropriate personal protective equipment when handling. Please consult the Safety Data Sheet (SDS) for detailed information. They are available online at www.chiron.no.

Issued by: Trondheim, November 3, 2023

Solveig B. Hauge

Solveig Bye Hauge, Quality Assurance Manager
Chiron AS

The purchaser must determine the suitability of this product for its particular use. Chiron AS makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Chiron AS. We do not guarantee that the product can be used for a special application.

Revision history

Version	Date	Description of change
1	10.07.2023	Initial release
2	03.11.2023	Updated document to new template Chemical analysis updated Document history section added