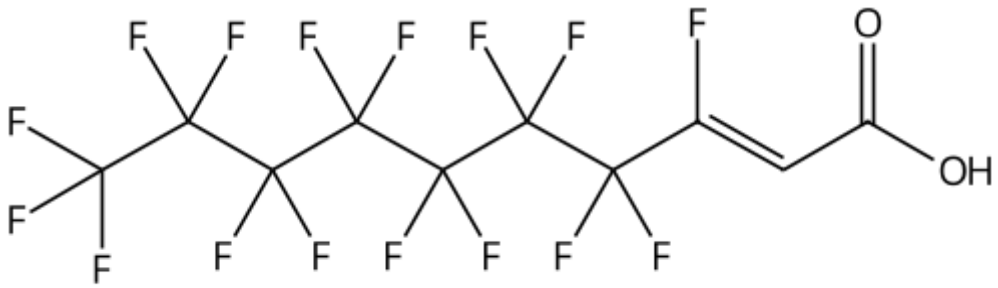
PRODUCT INFORMATION SHEET
REFERENCE MATERIAL

Certificate no.: 14173.10-27251-1

1. Description of the reference material (RM)

1.1. General product data

Compound:	**2H-Perfluoro-2-decenoic acid**
Chemical name:	(2Z)-3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Hexadecafluoro-2-decenoic acid
Synonym:	8:2 FTUCA; 8:2 fluorotelomer unsaturated carboxylic acid
Expiry date:	01/2032
Storage:	-20 °C; Protected from air and light. Before opening, allow the standard to reach room temperature. Ultra-sonicate for 5 minutes at RT before first use.
Catalogue #:	**14173.10-50-ME**
CAS #:	[70887-84-2]
Molecular formula:	$C_{10}H_2F_{16}O_2$
Molecular weight (g/mol):	458.10
Structure:	



1.2. Batch specific data

Batch #:	**27251**
Concentration (grav.)*:	**50 ± 2.5 µg/mL, adjusted for net purity**
Solvent:	Methanol
Volume:	Delivered in 1.0 mL plus excess of minimum 0.1 mL
Appearance:	Clear colourless solution

**Concentration is calculated by gravimetric measurements of both compound and solvent. Solvent density is taken into account.*

1.3. Chemical analysis of neat material

	Method	Results
Chromatographic purity by LC-UV (210 nm):	1202-2.1	99.9 %
Identity by LC-MS:	1202-2.1	Complies
Structural confirmation by NMR:	Internal*	Complies
Net purity[1]:	N/A	99.9 %

Chiron AS analytical raw data and chromatograms are available upon request.
[1](100 – wt% residual solvent –wt% water content – wt% residual inorganic) x Chromatographic purity / 100.
**Not an accredited analysis.*

Stability test: No

1.4. Homogeneity assessment

Homogeneity has not been assessed for this product.

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. Correct use of the RM

Allow the RM to reach room temperature before use. This product is supplied with an overfill to assist recovery of the specified volume. Users should transfer a measured volume before diluting to the desired concentration. The concentration is corrected for net purity and salt/conjugated acid. No further adjustment is required prior to use.

2.4. Manufacturing

All weights, volumes and temperatures are controlled daily using in-house procedures that are calibrated against traceable masters according to requirements in ISO/IEC 17025.

2.5. 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 on in this document. If the product is still in use after the validity period stated, please consult www.chiron.no for any document updates or extensions. Warranty can only be guaranteed when following the storage recommendations stated and up until the seal has been broken.

2.6. 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.

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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.

Document history

Version No.	Date	Description of change
1	14.01.2022	Initial release