

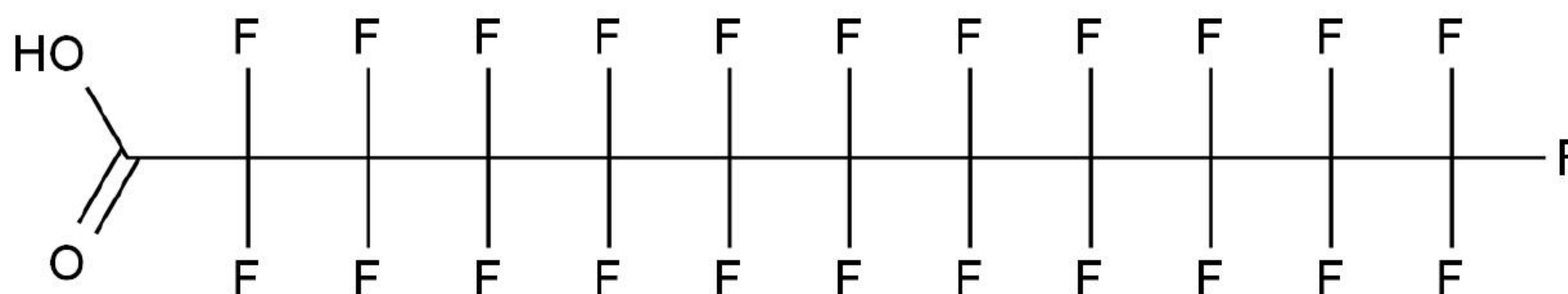
Certificate of Analysis

Reference Material & Standard

Product Name:	Perfluorododecanoic Acid	Catalogue Number:	CCHM700184
Synonyms:	N/A	Lot Number:	0118-RD-0078
CAS Number:	307-55-1	Expiry Date:	Oct 29, 2028
Molecular Formula:	C ₁₂ HF ₂₃ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	614.10	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&FNMR	Confirmed
Purity	ELSD	92.7644%
Loss On Drying	TGA	1.0783%
Assay		91.8%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) * Purity ELSD (%) / 100%

Loss On Drying is considered as absolute effect, ELSD purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Oct 30, 2024

Date: Oct 30, 2024

Date: Oct 30, 2024

