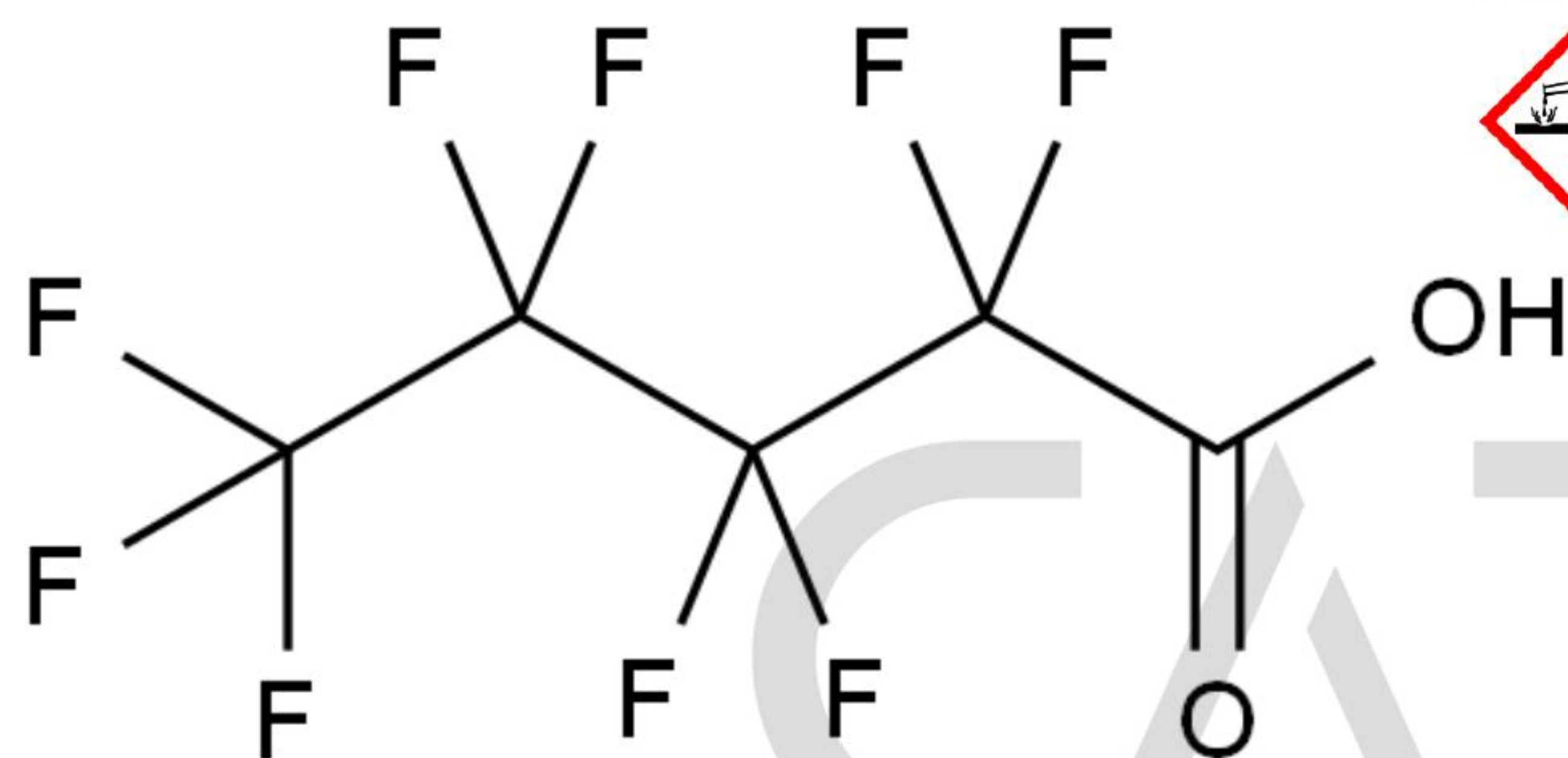


Certificate of Analysis

Reference Material & Standard

Product Name:	Perfluoropentanoic Acid	Catalogue Number:	CCHM701402
Synonyms:	N/A	Lot Number:	0114-RA-0003
CAS Number:	2706-90-3	Expiry Date:	Aug 09, 2027
Molecular Formula:	C ₅ HF ₉ O ₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	264.05		
Chemical Structure:			



Warning:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&FNMR	Confirmed
Purity	HPLC	99.2897%
Water Content	Karl Fischer	0.08%
Assay		99.2%
Uncertainty		±2.0%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$$

Water Content is considered as absolute effect, HPLC 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:

Lisa

Reviewed by:

Hinlam

Aproved by General Manager:

David

Date: Aug 10, 2023

Date: Aug 10, 2023

Date: Aug 10, 2023

