

Certificate of Analysis

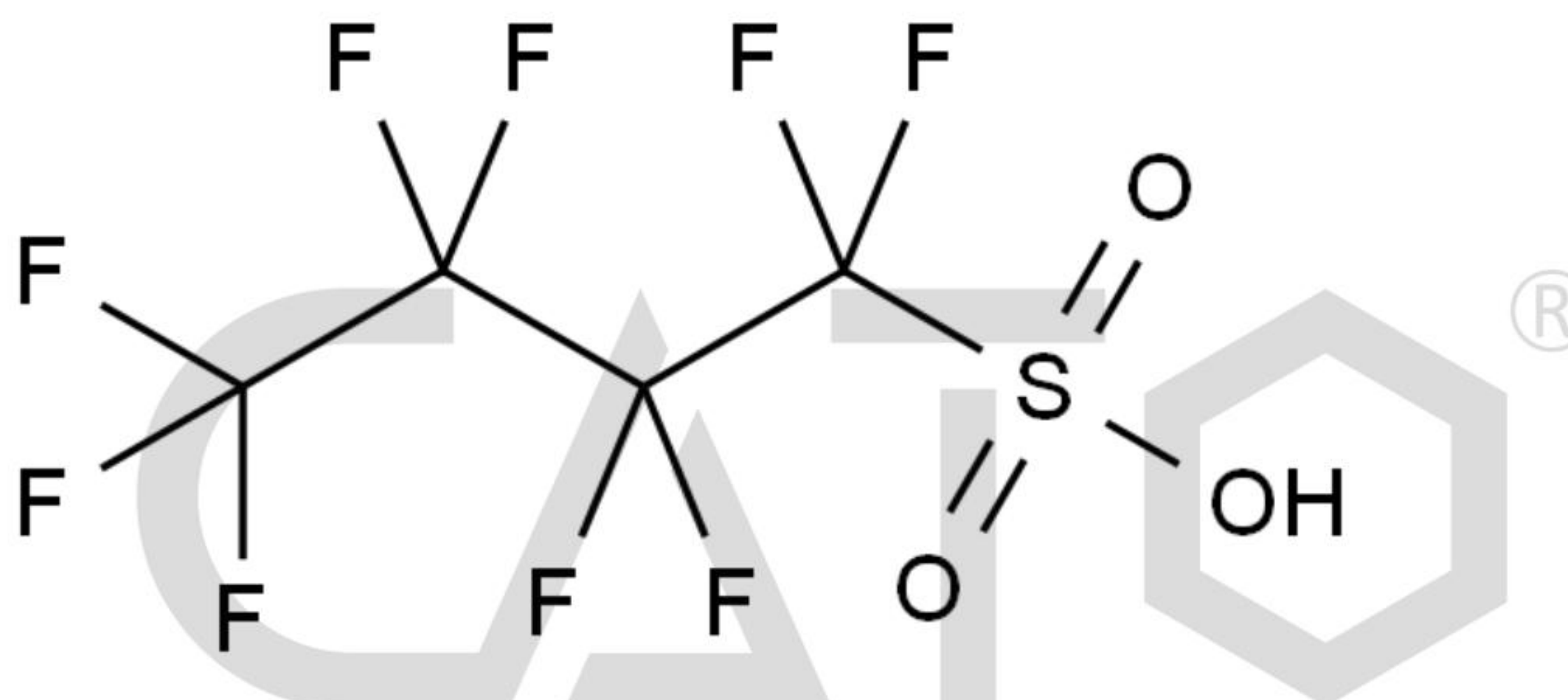
Reference Material & Standard

Product Name:	Nonafluoro-1-Butanesulfonic Acid	Catalogue Number:	CCHM700998
Synonyms:	N/A	Lot Number:	0713-RH-0070
CAS Number:	375-73-5	Expiry Date:	Jul 09, 2030
Molecular Formula:	C ₄ HF ₉ O ₃ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	300.10	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Brown Solid
Identification	LCMS&FNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	5.7800%
Assay		94.2%
Uncertainty		±0.6%

Comment:

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

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

Water Content 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:

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Date: Jul 13, 2026

Date: Jul 14, 2026

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