



Ultrashort-Chain PFAS Standards

Ultrashort-chain per- and polyfluoroalkyl substances (USC PFAS) are a group of highly fluorinated compounds with a chain length of 1-3 fluorinated carbons. These compounds are highly polar with low molecular weight, leading to increased analytical challenges, especially when paired with longer-chain PFAS compounds. Sources of USC PFAS are not well defined, but may be complex, including industrial manufacturing and chemical synthesis, atmospheric degradation of other fluorinated compounds (such as CFC refrigerants), oxidation byproducts, and more.

Recent investigations have shown that USC PFAS have been detected in humans, homes, and urban water supplies.¹ There is currently limited knowledge of the potential health impacts of these emerging compounds, though many projects are underway to evaluate this topic. CIL has recognized the important need for high-purity stable isotope-labeled and native ultrashort-chain PFAS standards to help researchers establish robust analytical methods for human exposure and environmental studies.

Featured Products

Catalog No.	Description	Concentration	Amount
CLM-11046-1.2	Sodium trifluoroacetate (TFA) ($^{13}\text{C}_2$, 99%)	50 $\mu\text{g}/\text{mL}$ in methanol	1.2 mL
ULM-11087-1.2	Sodium trifluoroacetate (TFA) (unlabeled)	50 $\mu\text{g}/\text{mL}$ in methanol	1.2 mL
CLM-11324-A-1.2	Perfluoro propanoic acid (PFPrA) ($^{13}\text{C}_3$, 99%)	50 $\mu\text{g}/\text{mL}$ in methanol (with 4 molar equivalent NaOH)	1.2 mL
ULM-11323-A-1.2	Perfluoro propanoic acid (PFPrA) (unlabeled)	50 $\mu\text{g}/\text{mL}$ in methanol (with 4 molar equivalent NaOH)	1.2 mL
ULM-11678-1.2	Sodium trifluoromethanesulfonate (PFMeS) (unlabeled)	50 $\mu\text{g}/\text{mL}$ in methanol	1.2 mL
ULM-11676-1.2	Sodium perfluoroethanesulfonate (PFEtS) (unlabeled)	50 $\mu\text{g}/\text{mL}$ in methanol	1.2 mL
ULM-11655-1.2	Sodium perfluoro-1-propanesulfonate (PFPrS) (unlabeled)	50 $\mu\text{g}/\text{mL}$ in methanol	1.2 mL

Reference

1. Zheng, G.; Eick, S.M.; Salamov, A. **2023**. Elevated levels of ultrashort- and short-chain perfluoroalkyl acids in US homes and people. *Environ Sci Technol*, 57(42), 15782-15793.
[Read more.](#)

Additional labeled and unlabeled standards are available. Please visit us at novachem.com.au
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