

# Perfluoroalkyl Standards

RTI International can provide mass-labeled perfluoroalkylsulfonates or sulfonamides by custom synthesis or, in the case of perfluorooctanesulfonate (PFOS), from stock. These compounds are labeled with oxygen-18. Mass-labeled PFOS is a standard for the quantitation of environmental PFOS.

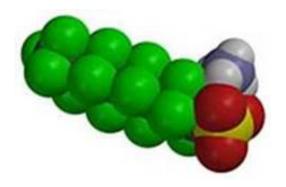
#### **Ordering Information**

A minimum order of \$600 for PFOS and \$500 for perfluorooctanesulfonamide (PFOSA) is required. Overseas shipping costs are paid by the recipient.

#### [18O<sub>3</sub>]-Ammonium Perfluorooctanesulfonate (Oxygen-18 Mass-Labeled PFOS)

The chemical formula of oxygen-18 mass-labeled PFOS is  $CF_3 - CF_2 - C$ 

Mass-labeled PFOS as the ammonium salt is the quantitation standard of choice for the determination of environmental PFOS. This oxygen-18 mass-labeled standard affords a four mass unit separation from the unlabeled analyte with a minimal level of unlabeled PFOS. It offers special advantages in quadrupole mass spectrometric analyses because both the parent ion (mass-to-charge ratio, m/e 503) and the daughter ion (m/e 103) retain the label for unambiguous quantitation. The >99% chemical purity of the standard is determined by high-performance liquid chromatography with mass spectrometry and evaporative light scattering detection.



This PFOS standard is prepared from telomer-derived intermediates and, therefore, has a linear perfluorooctyl chain in contrast to mixed straight and branched chains derived from electrochemical fluorination. The oxygen-18 label is resistant to exchange in aqueous media consistent with the behavior of sulfonic acids as a class.

	Total Amount	0.1 mg/1.0 mL methanol/ampule solution
Oxygen-18 mass-labeled PFOS	0.1 mg	\$200

## Perfluoroalkyl Standards Price List

### [18O<sub>3</sub>]-Perfluorooctanesulfonamide (Oxygen-18 Mass-Labeled PFOSA)

The chemical formula of oxygen-18 mass-labeled PFOSA is  $CF_3 - CF_2 -$ 

Oxygen-18 mass-labeled PFOSA at >99% purity is supplied as a 0.1 mg/1.0 mL methanol/ampule solution at \$500 each when in stock. When not in stock, it can be provided by custom synthesis at \$55,000/11 mg for a minimum synthesis.

	Total Amount	0.1 mg/1.0 mL methanol/ampule solution
Oxygen-18 mass-labeled PFOSA at >99%	0.1 mg	\$500
Custom synthesis	11 mg	\$55,000