

A close-up photograph of a hand cupped together, holding a stream of water. Overlaid on the image is a complex chemical structure representing a PFAS molecule. The structure features a central carbon chain with multiple fluorine (F) atoms attached, and a sulfonamide group (SO<sub>2</sub>NH) at one end, with an 'R' group indicating a variable alkyl chain. The background is dark, making the water and the chemical structure stand out.

# Protecting from PFAS

Chemicals for routine testing applications

## Chemicals

### PFAS: the forever chemical

Per- and polyfluorinated alkyl substances (PFAS) are manufactured chemicals that have been used in a wide variety of common consumer products and industrial activities. They are known as “forever chemicals” because they do not breakdown and can bioaccumulate. As such, there is an increasing need for robust, reliable methods which includes using chemicals that are fit for the purpose of PFAS analyses.

PFAS contamination can be determined by one of several regulatory methods, including global ASTM regulations, the Stockholm Convention on persistent organic pollutants (POPs), the EU Drinking Water Directive, and US EPA Methods 1633, 8327, 533, and 537, and OTM-45.

If you are following one of these methods - or are using an in-house method, let us help you find the right chemicals for your PFAS applications. These products are listed on the next page.

# Setting a new horizon for PFAS testing routines

The detection and quantification of known PFAS and the discovery of unknown PFAS has never been more important. Determining the best workflow for your PFAS analysis can be challenging. Optimal methods will vary depending on the matrix you are working with and goals of your analysis. There are strategies to help you with either targeted analysis of known PFAS compounds or the discovery of unknowns, from a variety of matrices.

Whether you need just a single item to complete an analysis or everything from sample preparation to chromatography and mass spectrometry to data analysis software, we have you covered. We offer solutions for problems at any step of your analytical process, no matter the size or scope of your PFAS project.

## Chemicals for analyzing PFAS

Designed to perform, our range of chemicals from **Fisher Chemical™** and **Thermo Scientific™** come in various purities, grades, and blends to ensure accuracy of results from the get-go. Selected products can be viewed online for more information. Where applicable, click on the catalog number to view their respective landing pages.

To purchase these products, you may contact your local distributor or e-mail us at [chemicals.seatw@thermofisher.com](mailto:chemicals.seatw@thermofisher.com) should you like to speak to a member of our sales team directly.

### Chemical solutions from Thermo Scientific

Cat. no	Description	Pack size
A956	Acetonitrile, UHPLC-MS, Thermo Scientific chemicals	1 L
A458	Methanol, UHPLC-MS, Thermo Scientific chemicals	1 L
W81	Water, UHPLC-MS, Thermo Scientific chemicals	1 L
42324	Acetone, 99.9w%, for residue analysis, Thermo Scientific chemicals	500 mL, 1 L, 2.5 L, 4 L
610110040	Toluene, HPLC Grade, 99.7% min, Thermo Scientific chemicals	4 L
326600010	Dichloromethane*, for residue and pesticide analysis, Thermo Scientific chemicals	1 L, 2.5 L, 4 L
456870050	Acetic acid*, 50%, Thermo Scientific chemicals	5 L
27048	Formic acid*, 99%, Thermo Scientific chemicals	25 mL, 1 L, 2.5 L
A16343	Ammonium acetate*, 97%, Thermo Scientific chemicals	250 g, 1 kg, 5 kg
033285	Ammonium hydroxide*, ACS, 28.0-30.0% NH <sub>3</sub> , chemicals Scientific Chemicals	250 g, 1 kg, 5 × 1 kg

### Chemical solutions from Fisher Chemical

Cat. no	Description	Pack size
A38	Glacial Acetic acid, Certified ACS Grade, Fisher Chemical with Safe-Cote™ Glass	1 L
A639	Ammonium acetate (Crystalline), HPLC Grade, Fisher Chemical	1 L
A669	Ammonium hydroxide, Certified ACS Plus Grade, Fisher Chemical	1 L
A117	Formic acid, 99.0+%, Fisher Chemical Optima™ LC-MS Grade	50 mL
P250	Potassium hydroxide (Pellets), Certified ACS Grade, Poly Bottle, Fisher Chemical	500 g, 1 kg
C272	Carbon, Activated (Powder), USP Grade, Poly Pail, Fisher Chemical	500 g, 2.5 kg
A929	Acetone, Optima, HPLC and GC Grade, Fisher Chemical	1 L, 4 L
D142	Methylene chloride, Pesticide Grade, Fisher Chemical	4 L

\* Availability and packaging of product offerings may vary across regions within Asia Pacific.

Learn more at [thermofisher.com/chemicals](https://thermofisher.com/chemicals) or email us at [chemicals.seatw@thermofisher.com](mailto:chemicals.seatw@thermofisher.com)

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