



This document contains brochures of Wellington Reporters from the year **2015**. We have created a combined file that includes them all for the specified year:

- April 2015 - Native Halogenated Carbazole
- April 2015 - Native Perfluorinated Compounds
- June 2015 - Native Branched Perfluorinated Compounds
- June 2015 - Native Telomer Sulfonate
- September 2015 - Mass-Labelled Perfluorobutanesulfonate
- October 2015 - Native Tris(2,3-dibromopropyl) phosphate: TDBPP

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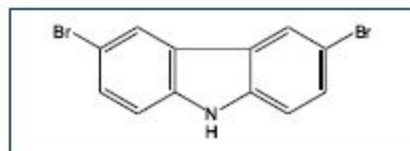


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**NEW PRODUCT****NATIVE 3,6-DIBROMOCARBAZOLE**

Halogenated carbazoles have recently been recognized as emerging environmental contaminants. Although their exact source has not been determined, both modern and historic sources (LED manufacturing and halogenated indigo dyes respectively) have been suggested. Since certain halogenated carbazole congeners can be lost during acid silica clean-up, it is very important that reference standards be used to monitor recoveries when processing samples. Therefore, in order to aid researchers in the detection of halogenated carbazoles in environmental samples, Wellington has added a 3,6-dibromo-9H-carbazole certified reference standard (BCZ-36) to our inventory.



BCZ-36

Catalogue Number	Product (nonane)	Qty	Conc
MCCZ-36	3,6-Dichloro-9H-[¹³ C ₁₂]carbazole	1.2 ml	50 µg/ml
MCCZ-1368	1,3,6,8-Tetrachloro-9H-[¹³ C ₁₂]carbazole	1.2 ml	50 µg/ml

Catalogue Number	Product (nonane)	Qty	Conc
CCZ-3	3-Chloro-9H-carbazole	1.2 ml	50 µg/ml
CCZ-36	3,6-Dichloro-9H-carbazole	1.2 ml	50 µg/ml
CCZ-1368	1,3,6,8-Tetrachloro-9H-carbazole	1.2 ml	50 µg/ml
CCZ-2367	2,3,6,7-Tetrachloro-9H-carbazole	1.2 ml	50 µg/ml

Catalogue Number	Product (nonane)	Qty	Conc
BCZ-3	3-Bromo-9H-carbazole	1.2 ml	50 µg/ml
BCZ-27	2,7-Dibromo-9H-carbazole	1.2 ml	50 µg/ml
NEW BCZ-36	3,6-Dibromo-9H-carbazole	1.2 ml	50 µg/ml
BCZ-136	1,3,6-Tribromo-9H-carbazole	1.2 ml	50 µg/ml
BCZ-1368	1,3,6,8-Tetrabromo-9H-carbazole	1.2 ml	50 µg/ml

Catalogue Number	Product (nonane)	Qty	Conc
1-B-36-CCZ	1-Bromo-3,6-Dichloro-9H-carbazole	1.2 ml	50 µg/ml
18-B-36-CCZ	1,8-Dibromo-3,6-Dichloro-9H-carbazole	1.2 ml	50 µg/ml

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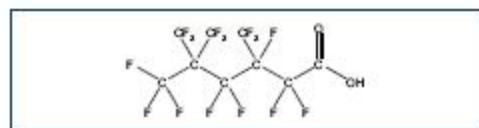


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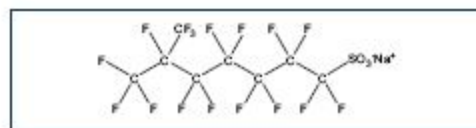


NEW PERFLUORINATED PRODUCTS

In addition to our extensive range of certified reference standards for linear perfluoroalkyl carboxylic acids and perfluoroalkane sulfonates, **Wellington** also offers individual reference standards of some branched isomers. It is well documented that branched and linear perfluorinated compounds can have varying isomer profiles in biological samples. Therefore, to aid researchers in the analysis of these compounds, **Wellington** is adding two additional branched perfluoroalkyl reference standards (**P355TMHxA** and **NaP6MHpS**) to our line of perfluorinated compounds.



P355TMHxA

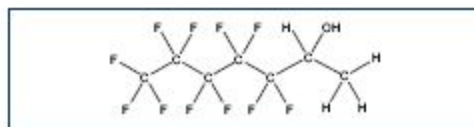


NaP6MHpS

	Catalogue Number	Product (methanol)	Qty/Conc
NEW	NaP6MHpS	Sodium perfluoro-6-methylheptanesulfonate	1.2 ml 50 µg/ml
	ipPFNS	Sodium perfluoro-7-methyloctanesulfonate	1.2 ml 50 µg/ml

	Catalogue Number	Product (methanol)	Qty/Conc
NEW	P355TMHxA	Perfluoro-3,5,5-trimethylhexanoic acid	1.2 ml 50 µg/ml
	ipPFNA	Perfluoro-7-methyloctanoic acid (90%)	1.2 ml 45 µg/ml
	P37DMOA	Perfluoro-3,7-dimethyloctanoic acid	1.2 ml 50 µg/ml

Also, to supplement our existing inventory of polyfluorinated secondary telomer alcohols, we are introducing a 1-perfluoropentyl ethanol (**5:2sFTOH**) reference standard.



5:2sFTOH

	Catalogue Number	Product (methanol)	Qty/Conc
NEW	5:2sFTOH	1-Perfluoropentyl ethanol	1.2 ml 50 µg/ml
	7:2sFTOH	1-Perfluoroheptyl ethanol	1.2 ml 50 µg/ml

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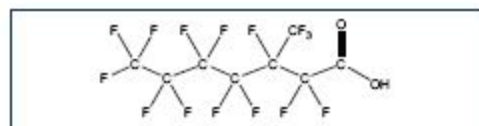


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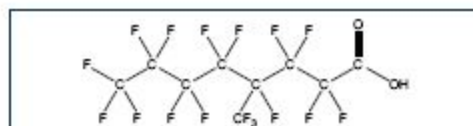


**NEW BRANCHED PERFLUOROALKYL REFERENCE STANDARDS**

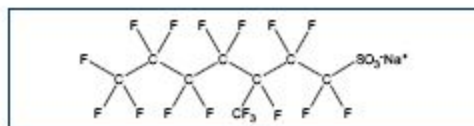
It is well documented that many environmental samples contain both branched and linear isomers of perfluoroalkyl carboxylic acids and perfluoroalkanesulfonate salts. In response to customer requests for quantitative individual reference standards for these compounds, Wellington has synthesized additional branched perfluoroalkyl compounds (P3MHpA, P4MOA, and NaP3MHpS) to complement our currently available selection of standards. A typical commercial sample of perfluorooctanesulfonic acid (PFOS) contains 5% and 11% of NaP3MHpS and NaP6MHpS respectively. Similarly, technical mixtures of perfluorooctanoic acid (PFOA) contain approximately 3% of P3MHpA. It is hoped that the continued introduction of certified branched perfluoroalkyl reference standards will aid researchers in the analysis of these compounds in environmental and biological samples.



P3MHpA



P4MOA



NaP3MHpS

	Catalogue Number	Product (methanol)	Qty/Conc
NEW	NaP3MHpS	Sodium perfluoro-3-methylheptanesulfonate	1.2 ml 50 µg/ml
	NaP6MHpS	Sodium perfluoro-6-methylheptanesulfonate	1.2 ml 50 µg/ml
	ipPFNS	Sodium perfluoro-7-methyloctanesulfonate	1.2 ml 50 µg/ml

	Catalogue Number	Product (methanol)	Qty/Conc
	P35TMHxA	Perfluoro-3,5,5-trimethylhexanoic acid	1.2 ml 50 µg/ml
NEW	P3MHpA	Perfluoro-3-methylheptanoic acid	1.2 ml 50 µg/ml
NEW	P4MOA	Perfluoro-4-methyloctanoic acid	1.2 ml 50 µg/ml
	ipPFNA	Perfluoro-7-methyloctanoic acid (90%)	1.2 ml 45 µg/ml
	P37DMOA	Perfluoro-3,7-dimethyloctanoic acid	1.2 ml 50 µg/ml



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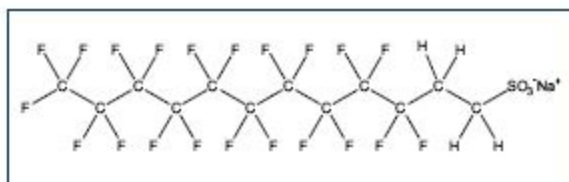
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**NEW PRODUCT****Native Telomer Sulfonate**
10:2FTS

The effectiveness of aqueous film-forming foams (AFFFs) for the purpose of fighting hydrocarbon-fueled fires has resulted in the development of multiple formulations containing complex mixtures of fluorocarbon- and hydrocarbon-based surfactants. Polyfluorinated sulfonates (commonly referred to as telomer sulfonates) are known components of aqueous film-forming foams (AFFFs) which are used to extinguish Class B flammable liquid fires. Unfortunately, their widespread use has resulted in their detection in environmental samples.

In order to assist in the development of robust analytical methods, Wellington has prepared a reference standard solution of 10:2FTS to complement our existing selection of telomer sulfonate standards and aid researchers in the generation of accurate data.



Sodium 1H,1H,2H,2H-perfluorododecane sulfonate

Catalogue Number	Product (methanol)	Qty/Conc
4:2FTS	Sodium 1H,1H,2H,2H-perfluorohexane sulfonate	1.2 ml 50 µg/ml
6:2FTS	Sodium 1H,1H,2H,2H-perfluorooctane sulfonate	1.2 ml 50 µg/ml
8:2FTS	Sodium 1H,1H,2H,2H-perfluorodecane sulfonate	1.2 ml 50 µg/ml
NEW 10:2FTS	Sodium 1H,1H,2H,2H-perfluorododecane sulfonate	1.2 ml 50 µg/ml

The following mass-labelled telomer sulfonates are also available...

Catalogue Number	Product (methanol)	Qty/Conc
M2-4:2FTS	Sodium 1H,1H,2H,2H-perfluoro-[1,2- ¹³ C ₂]hexane sulfonate	1.2 ml 50 µg/ml
M2-6:2FTS	Sodium 1H,1H,2H,2H-perfluoro-[1,2- ¹³ C ₂]octane sulfonate	1.2 ml 50 µg/ml
M2-8:2FTS	Sodium 1H,1H,2H,2H-perfluoro-[1,2- ¹³ C ₂]decane sulfonate	1.2 ml 50 µg/ml



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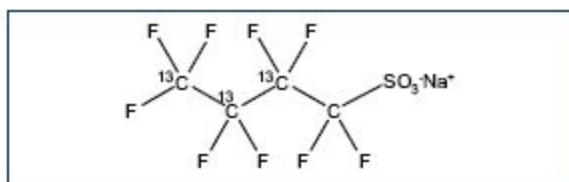
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**NEW PRODUCT****Mass-Labelled Perfluorobutanesulfonate**
M3PFBS

Wellington is pleased to announce the long awaited release of a mass-labelled perfluorobutanesulfonate reference standard (M3PFBS). Although it has a short biological half-life, PFBS is frequently detected in environmental samples, and it seems to be chemically stable and persistent. One major concern is that it is not removed from water using conventional treatment methods and may end up in drinking water. Many research groups are particularly interested in monitoring the levels of PFBS in water and biological samples since a steady state and continuous exposure may lead to human health effects. Thus, a surrogate standard for PFBS is highly desirable. For these reasons, and in response to customer requests, Wellington has invested a significant amount of time and effort into synthesizing a carbon-13 labelled perfluorobutanesulfonate reference standard to aid in the accurate detection and quantification of this compound.

Sodium perfluoro-1-[2,3,4-¹³C₃]butanesulfonate

	Catalogue Number	Product (methanol)	Qty/Conc
NEW	M3PFBS	Sodium perfluoro-1-[2,3,4- ¹³ C ₃]butanesulfonate	1.2 ml 50 µg/ml
	MPFHxS	Sodium perfluoro-1-hexane[¹⁸ O ₂]sulfonate	1.2 ml 50 µg/ml
	M3PFHxS	Sodium perfluoro-1-[1,2,3- ¹³ C ₃]hexanesulfonate	1.2 ml 50 µg/ml
	MPFOS	Sodium perfluoro-1-[1,2,3,4- ¹³ C ₄]octanesulfonate	1.2 ml 50 µg/ml
	M8PFOS	Sodium perfluoro-1-[¹³ C ₈]octanesulfonate	1.2 ml 50 µg/ml

We also offer certified reference standards for native perfluoroalkanesulfonates (C₄ - C₁₀, and C₁₂) as well as many other per- and poly-fluorinated compounds.

Please contact your local distributor or info@well-labs.com for pricing and delivery.

Visit our website (www.well-labs.com) for a complete listing of our new products.

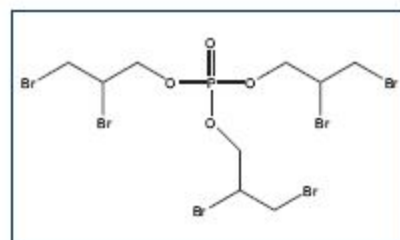




October 30, 2015

NEW PRODUCT**NATIVE TRIS(2,3-DIBROMOPROPYL) PHOSPHATE**

Tris(2,3-dibromopropyl) phosphate (TDBPP) was famously banned from being used as a flame-retardant in children's clothing in 1977, but it was also extensively used in other products such as polyurethane and polystyrene foams. Although it is not currently produced, applied, or marketed as a flame retardant, TDBPP may be added to polymers for other purposes. In order to aid researchers in the detection of organophosphorus compounds in environmental samples, Wellington has produced a certified reference standard for TDBPP to complement our existing inventory.



TDBPP

Catalogue Number	Product (toluene)	Qty	Conc
TPP	Triphenyl phosphate	1.2 ml	50 µg/ml
TOTP	Tri- <i>o</i> -tolyl phosphate	1.2 ml	50 µg/ml
TMTP	Tri- <i>m</i> -tolyl phosphate (97% purity)	1.2 ml	50 µg/ml
TPTP	Tri- <i>p</i> -tolyl phosphate	1.2 ml	50 µg/ml
T35DMPP	Tris(3,5-dimethylphenyl) phosphate	1.2 ml	50 µg/ml
T2IPPP	Tris(2-isopropylphenyl) phosphate	1.2 ml	50 µg/ml
TEP	Tri-ethyl phosphate	1.2 ml	50 µg/ml
TPrP	Tri- <i>n</i> -propyl phosphate	1.2 ml	50 µg/ml
TBP	Tri- <i>n</i> -butyl phosphate	1.2 ml	50 µg/ml
TBEP	Tris(2-butoxyethyl) phosphate	1.2 ml	50 µg/ml
NEW TDBPP	Tris(2,3-dibromopropyl) phosphate	1.2 ml	50 µg/ml
EHDP	2-Ethylhexyl diphenyl phosphate	1.2 ml	50 µg/ml
TEHP	Tris(2-ethylhexyl) phosphate	1.2 ml	50 µg/ml
TCEP	Tris(2-chloroethyl) phosphate	1.2 ml	50 µg/ml
TCPP	Tris[(2 <i>R</i>)-1-chloro-2-propyl] phosphate	1.2 ml	50 µg/ml
TDCPP	Tris(1,3-dichloro-2-propyl) phosphate	1.2 ml	50 µg/ml

Please contact your local distributor or info@well-labs.com for pricing and delivery.

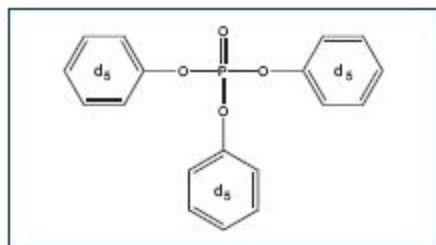
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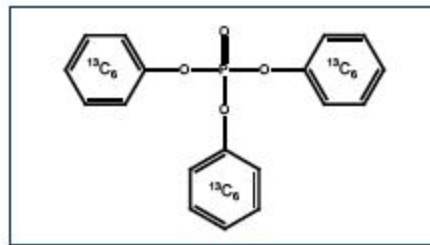
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Wellington also offers a selection of mass-labelled organophosphorus compounds as certified reference standards.

Catalogue Number	Product (toluene)	Qty	Conc
MTPP	$^{13}\text{C}_{18}$ -Triphenyl phosphate	1.2 ml	50 $\mu\text{g/ml}$
dTPP	Triphenyl phosphate- d_{15}	1.2 ml	50 $\mu\text{g/ml}$
dTEP	Tri-ethyl phosphate- d_{15}	1.2 ml	50 $\mu\text{g/ml}$
dTPrP	Tri-n-propyl phosphate- d_{21}	1.2 ml	50 $\mu\text{g/ml}$
dTBP	Tri-n-butyl phosphate- d_{27}	1.2 ml	50 $\mu\text{g/ml}$
M6TBEP	Tris(2-butoxy- $^{13}\text{C}_2$ -ethyl) phosphate	1.2 ml	50 $\mu\text{g/ml}$
dTCEP	Tris(2-chloroethyl) phosphate- d_{12}	1.2 ml	50 $\mu\text{g/ml}$
dTDCPP	Tris(1,3-dichloro-2-propyl) phosphate- d_{15}	1.2 ml	50 $\mu\text{g/ml}$
dBDCP	Bis(1,3-dichloro-2-propyl) phosphate- d_{10} (in acetonitrile)	1.2 ml	50 $\mu\text{g/ml}$



dTPP



MTPP

