WELLINGTON Reporter

PRODUCT UPDATES FROM WELLINGTON LABORATORIES

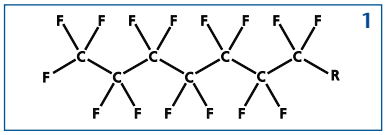
July 24 2008

NEW PRODUCTS

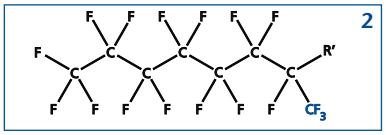
PFOS/PFOA ISOMERS

Interest in the branched isomers of PFOS and PFOA has increased due to issues relating to quantification of total PFOS and PFOA content. Possible differences in bioaccumulation potential and toxicity between the linear and the branched isomers are also a concern. LC/MS and GC/MS methods are now known that facilitate the separation of the various isomers. However, there has been a lack of standards available to aid in the identification and quantification of these branched isomers.

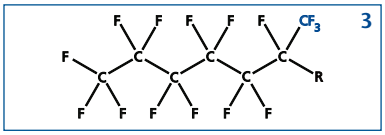
WELLINGTON now offers mixtures of individual branched PFOS/PFOA isomers as reference standard solutions that will permit laboratories to identify and quantify the various branched isomers of PFOS and PFOA that are found most abundantly in samples. Nine branched isomers in total have been isolated.



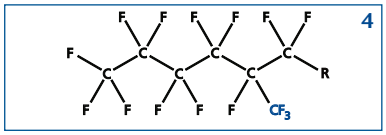
Linear



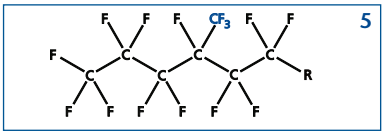
Perfluoro-1-methyl-



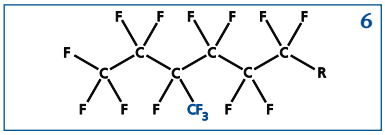
Perfluoro-2-methyl-



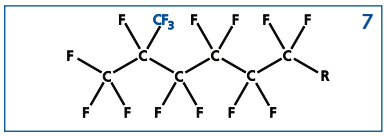
Perfluoro-3-methyl-



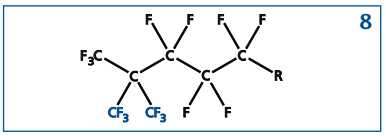
Perfluoro-4-methyl-



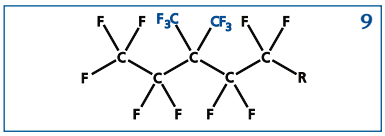
Perfluoro-5-methyl-



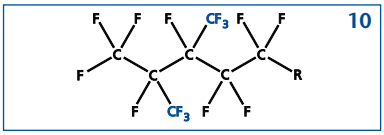
Perfluoro-6-methyl-



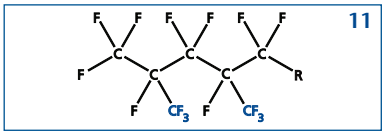
Perfluoro-5,5-dimethyl-



Perfluoro-4,4-dimethyl-



Perfluoro-4,5-dimethyl-



Perfluoro-3,5-dimethyl-

NOTE: R = CO_2^- and $CF_2SO_3^-$ except for Isomer 2 where R′ = SO_3^- only

Each reference standard solution contains an individual branched isomer (2 to 9) present as a mixture of both the carboxylic acid and sulfonate, except for 2 which contains only the sulfonate. Isomers 10 and 11 are offered as a mixture in a single solution. In all solutions the concentration of the sulfonate has been adjusted to 1 µg/ml and the concentration of the corresponding carboxylic acid varies between 1 and 4 µg/ml. The maximum percent relative combined uncertainty for solution preparation of these standards is calculated to be ±20%.

ISO 9001:2000

QMI REGISTERED

0008388:1039334

PFOS/PFOA ISOMERS

Catalogue Number	Product (methanol solution)	Qty/Conc	
P1MHpS	Perfluoro-1-methylheptane sulfonate	200 µl	1.00 µg/ml
P2MHpS	Perfluoro-2-methylheptane sulfonate	200 µl	1.00 µg/ml
	Perfluoro-2-methylheptanoic acid		1.05 µg/ml
P3MHpS	Perfluoro-3-methylheptane sulfonate	200 µl	1.00 µg/ml
	Perfluoro-3-methylheptanoic acid		1.90 µg/ml
P4MHpS	Perfluoro-4-methylheptane sulfonate	200 µl	1.00 µg/ml
	Perfluoro-4-methylheptanoic acid		2.20 µg/ml
P5MHpS	Perfluoro-5-methylheptane sulfonate	200 µl	1.00 µg/ml
	Perfluoro-5-methylheptanoic acid		1.96 µg/ml
P6MHpS	Perfluoro-6-methylheptane sulfonate	200 µl	1.00 µg/ml
	Perfluoro-6-methylheptanoic acid		3.10 µg/ml
P55DMHxS	Perfluoro-5,5-dimethylhexane sulfonate	200 µl	1.00 µg/ml
	Perfluoro-5,5-dimethylhexanoic acid		1.95 µg/ml
P44DMHxS	Perfluoro-4,4-dimethylhexane sulfonate	200 µl	1.00 µg/ml
	Perfluoro-4,4-dimethylhexanoic acid		3.14 µg/ml
P45DMHxS	Perfluoro-4,5-dimethylhexane sulfonate	200 µl	1.00 µg/ml
	Perfluoro-4,5-dimethylhexanoic acid		1.22 µg/ml
	Perfluoro-3,5-dimethylhexane sulfonate		0.50 µg/ml
	Perfluoro-3,5-dimethylhexanoic acid		0.60 µg/ml

For pricing and delivery information please contact the distributor that serves your area, or by e-mail at info@well-labs.com