



August 22, 2016

NEW PRODUCTS**NATIVE ORGANOPHOSPHATE REFERENCE STANDARDS**

In order to aid researchers in the accurate quantitation of organophosphorus compounds in environmental samples, **Wellington** has produced certified reference standards for 14 new organophosphate compounds that are believed to be present at significant levels in commercial flame retardant mixtures such as FM-550 and FM-600. These new products complement our existing inventory of native and mass-labelled organophosphate reference standards.

NEW OPFR CERTIFIED REFERENCE STANDARDS...

Catalogue Number	Product (toluene)	Qty	Conc
B2tBPPP	Bis(2- <i>tert</i> -butylphenyl) phenyl phosphate	1.2 ml	50 µg/ml
B4tBPPP	Bis(4- <i>tert</i> -butylphenyl) phenyl phosphate	1.2 ml	50 µg/ml
2tBDPPP	2- <i>tert</i> -Butylphenyl diphenyl phosphate	1.2 ml	50 µg/ml
4tBDPPP	4- <i>tert</i> -Butylphenyl diphenyl phosphate	1.2 ml	50 µg/ml
T4tBPP	Tris(4- <i>tert</i> -butylphenyl) phosphate	1.2 ml	50 µg/ml
T3IPPP	Tris(3-isopropylphenyl) phosphate	1.2 ml	50 µg/ml
T4IPPP	Tris(4-isopropylphenyl) phosphate	1.2 ml	50 µg/ml
T34DMPP	Tris(3,4-dimethylphenyl) phosphate	1.2 ml	50 µg/ml
B24DIPPPP	Bis(2,4-diisopropylphenyl) phenyl phosphate	1.2 ml	50 µg/ml
B2IPPPP	Bis(2-isopropylphenyl) phenyl phosphate	1.2 ml	50 µg/ml
B4IPPPP	Bis(4-isopropylphenyl) phenyl phosphate	1.2 ml	50 µg/ml
2IPDPPP	2-Isopropylphenyl diphenyl phosphate	1.2 ml	50 µg/ml
4IPDPPP	4-Isopropylphenyl diphenyl phosphate	1.2 ml	50 µg/ml
24DIPDPPP	2,4-Diisopropylphenyl diphenyl phosphate	1.2 ml	50 µg/ml

Wellington also offers native and mass-labelled certified reference standards for the “non-OPFR” components of FM-550.

Catalogue Number	Product (toluene)	Qty	Conc
MEHTBB	2-Ethylhexyl-d ₁₇ 2,3,4,5-tetrabromo[¹³ C ₆]benzoate	1.2 ml	50 µg/ml
MBEHTBP	Bis(2-ethylhexyl-d ₁₇) tetrabromo[¹³ C ₆]phthalate	1.2 ml	50 µg/ml
EHTBB	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate	1.2 ml	50 µg/ml
BEHTBP	Bis(2-ethylhexyl) tetrabromophthalate	1.2 ml	50 µg/ml

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Certificato ISO 9001:2008 n°180/2008



ISO 9001

Previously released native OPFRs...

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	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	Triethyl 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
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
BDCP	Bis(1,3-dichloro-2-propyl) phosphate (97%purity in acetonitrile)	1.2 ml	48.5 µg/ml

Previously released mass-labelled OPFRs...

Catalogue Number	Product (toluene)	Qty	Conc
MTTP	¹³ C ₁₈ -Triphenyl phosphate	1.2 ml	50 µg/ml
dTPP	Triphenyl phosphate-d ₁₅	1.2 ml	50 µg/ml
dTEP	Triethyl phosphate-d ₁₅	1.2 ml	50 µg/ml
dTPrP	Tri- <i>n</i> -propyl phosphate-d ₂₁	1.2 ml	50 µg/ml
dTBP	Tri- <i>n</i> -butyl phosphate-d ₂₇	1.2 ml	50 µg/ml
M6TBEP	Tris(2-butoxy-[¹³ C ₂]-ethyl) phosphate	1.2 ml	50 µg/ml
dTCEP	Tris(2-chloroethyl) phosphate-d ₁₂	1.2 ml	50 µg/ml
dTDCPP	Tris(1,3-dichloro-2-propyl) phosphate-d ₁₅	1.2 ml	50 µg/ml
dBDCP	Bis(1,3-dichloro-2-propyl) phosphate-d ₁₀ (in acetonitrile)	1.2 ml	50 µg/ml

