



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...**

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

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



ISO 9001

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### Previously released native OPFRs...

Catalogue Number	Product (toluene)	Qty	Conc
<b>TPP</b>	Triphenyl phosphate	1.2 ml	50 µg/ml
<b>TOTP</b>	Tri- <i>o</i> -tolyl phosphate	1.2 ml	50 µg/ml
<b>TMTP</b>	Tri- <i>m</i> -tolyl phosphate	1.2 ml	50 µg/ml
<b>TPTP</b>	Tri- <i>p</i> -tolyl phosphate	1.2 ml	50 µg/ml
<b>T35DMPP</b>	Tris(3,5-dimethylphenyl) phosphate	1.2 ml	50 µg/ml
<b>T2IPPP</b>	Tris(2-isopropylphenyl) phosphate	1.2 ml	50 µg/ml
<b>TEP</b>	Triethyl phosphate	1.2 ml	50 µg/ml
<b>TPrP</b>	Tri- <i>n</i> -propyl phosphate	1.2 ml	50 µg/ml
<b>TBP</b>	Tri- <i>n</i> -butyl phosphate	1.2 ml	50 µg/ml
<b>TBEP</b>	Tris(2-butoxyethyl) phosphate	1.2 ml	50 µg/ml
<b>TDBPP</b>	Tris(2,3-dibromopropyl) phosphate	1.2 ml	50 µg/ml
<b>EHDP</b>	2-Ethylhexyl diphenyl phosphate	1.2 ml	50 µg/ml
<b>TEHP</b>	Tris(2-ethylhexyl) phosphate	1.2 ml	50 µg/ml
<b>TCEP</b>	Tris(2-chloroethyl) phosphate	1.2 ml	50 µg/ml
<b>TCPP</b>	Tris[(2 <i>R</i> )-1-chloro-2-propyl] phosphate	1.2 ml	50 µg/ml
<b>TDCPP</b>	Tris(1,3-dichloro-2-propyl) phosphate	1.2 ml	50 µg/ml
<b>BDCP</b>	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
<b>MTTP</b>	<sup>13</sup> C <sub>18</sub> -Triphenyl phosphate	1.2 ml	50 µg/ml
<b>dTPP</b>	Triphenyl phosphate-d <sub>15</sub>	1.2 ml	50 µg/ml
<b>dTEP</b>	Triethyl phosphate-d <sub>15</sub>	1.2 ml	50 µg/ml
<b>dTPrP</b>	Tri- <i>n</i> -propyl phosphate-d <sub>21</sub>	1.2 ml	50 µg/ml
<b>dTBP</b>	Tri- <i>n</i> -butyl phosphate-d <sub>27</sub>	1.2 ml	50 µg/ml
<b>M6TBEP</b>	Tris(2-butoxy-[ <sup>13</sup> C <sub>2</sub> ]-ethyl) phosphate	1.2 ml	50 µg/ml
<b>dTCEP</b>	Tris(2-chloroethyl) phosphate-d <sub>12</sub>	1.2 ml	50 µg/ml
<b>dTDCPP</b>	Tris(1,3-dichloro-2-propyl) phosphate-d <sub>15</sub>	1.2 ml	50 µg/ml
<b>dBDCP</b>	Bis(1,3-dichloro-2-propyl) phosphate-d <sub>10</sub> (in acetonitrile)	1.2 ml	50 µg/ml

