

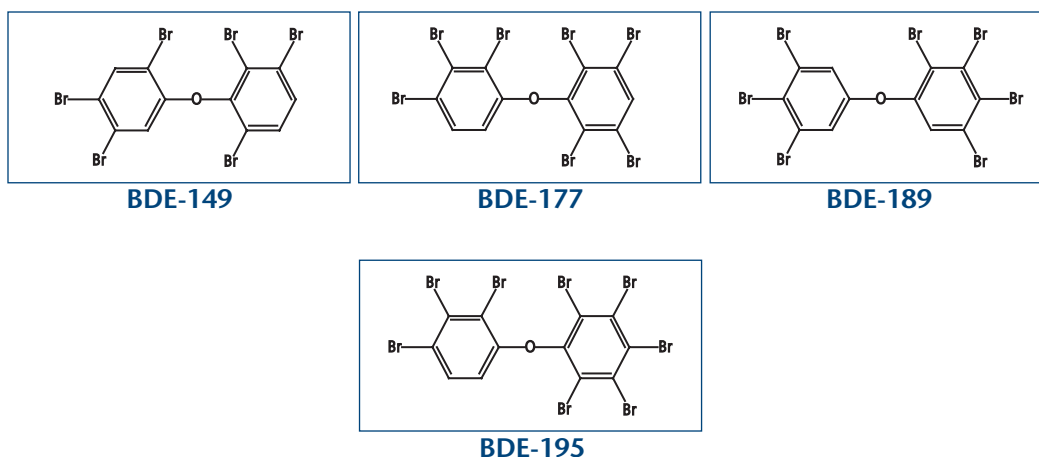


June 21 2006

PBDE UPDATE

NEW NATIVE POLYBROMINATED DIPHENYL ETHERS

With the intention of providing a more comprehensive choice of Polybrominated Diphenyl Ether congeners (PBDEs), Wellington Laboratories has recently completed the synthesis of 4 new native PBDEs.



Through further analysis of the minor components in the octaBDE technical mixture DE-79™, it has been determined that both **BDE-149** and **BDE-195** are present. Furthermore, **BDE-195** is the last eluting octa congener for certain capillary GC columns, helping to further delineate the retention time window for this group.

Debromination of highly substituted BDEs, such as BDE-209, could be a pathway to potentially more toxic, lower brominated diphenyl ether congeners found in the environment. It is possible, during the debromination process, that a variety of BDEs could be formed whose presence in environmental samples can not be attributed to the commercial formulations. Although **BDE-177** and **BDE-189** should not be present in detectable quantities in the commercial products, they may be expected to be found in environmental samples.

An updated list of our native PBDEs is attached.

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

AND...Please continue to visit our website (www.well-labs.com) for a complete listing of new product releases.

NATIVE BROMINATED DIPHENYL ETHERS (PBDEs)

| Catalogue Number | Product (nonane solution) | Qty/Conc |
|--------------------|---|-----------------|
| BDE-1 | 2-Bromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-2 | 3-Bromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-3 | 4-Bromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-7 | 2,4-Dibromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-10 | 2,6-Dibromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-15 | 4,4'-Dibromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-17 | 2,2',4-Tribromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-28 | 2,4,4'-Tribromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-30 | 2,4,6-Tribromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-47 | 2,2',4,4'-Tetrabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-49 | 2,2',4,5'-Tetrabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-54 | 2,2',6,6'-Tetrabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-66 | 2,3',4,4'-Tetrabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-71 | 2,3',4',6-Tetrabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-77 | 3,3',4,4'-Tetrabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-85 | 2,2',3,4,4'-Pentabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-99 | 2,2',4,4',5-Pentabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-100 | 2,2',4,4',6-Pentabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-119 | 2,3',4,4',6-Pentabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-126 | 3,3',4,4',5-Pentabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-138 | 2,2',3,4,4',5'-Hexabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-139 | 2,2',3,4,4',6-Hexabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-140 | 2,2',3,4,4',6'-Hexabromodiphenyl ether | 1.2 ml 50 µg/ml |
| NEW BDE-149 | 2,2',3,4',5',6-Hexabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-153 | 2,2',4,4',5,5'-Hexabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-154 | 2,2',4,4',5,6'-Hexabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-155 | 2,2',4,4',6,6'-Hexabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-156 | 2,3,3',4,4',5-Hexabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-169 | 3,3',4,4',5,5'-Hexabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-170 | 2,2',3,3',4,4',5-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-171 | 2,2',3,3',4,4',6-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| NEW BDE-176 | 2,2',3,3',4,6,6'-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| NEW BDE-177 | 2,2',3,3',4',5,6-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| NEW BDE-179 | 2,2',3,3',5,6,6'-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-180 | 2,2',3,4,4',5,5'-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-181 | 2,2',3,4,4',5,6-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-182 | 2,2',3,4,4',5,6'-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-183 | 2,2',3,4,4',5',6-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| BDE-184 | 2,2',3,4,4',6,6'-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |



NATIVE BROMINATED DIPHENYL ETHERS

| | Catalogue Number | Product (nonane solution) | Qty/Conc |
|------------|------------------|---|-----------------|
| NEW | BDE-188 | 2,2',3,4',5,6,6'-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| NEW | BDE-189 | 2,3,3',4,4',5,5'-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-191* | 2,3,3',4,4',5',6-Heptabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-194* | 2,2',3,3',4,4',5,5'-Octabromodiphenyl ether | 1.2 ml 50 µg/ml |
| NEW | BDE-195* | 2,2',3,3',4,4',5,6-Octabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-196* | 2,2',3,3',4,4',5,6'-Octabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-197* | 2,2',3,3',4,4',6,6'-Octabromodiphenyl ether | 1.2 ml 50 µg/ml |
| NEW | BDE-200* | 2,2',3,3',4,5,6,6'-Octabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-201* | 2,2',3,3',4,5',6,6'-Octabromodiphenyl ether | 1.2 ml 50 µg/ml |
| NEW | BDE-202* | 2,2',3,3',5,5',6,6'-Octabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-203* | 2,2',3,4,4',5,5',6-Octabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-204* | 2,2',3,4,4',5,6,6'-Octabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-205* | 2,3,3',4,4',5,5',6-Octabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-206* | 2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-207* | 2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-208* | 2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether | 1.2 ml 50 µg/ml |
| | BDE-209* | Decabromodiphenyl ether | 1.2 ml 50 µg/ml |

* Toluene solution

