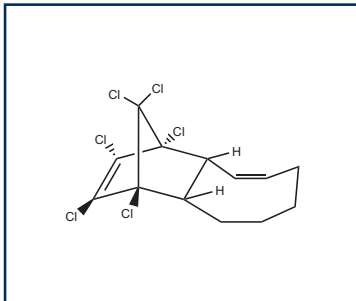
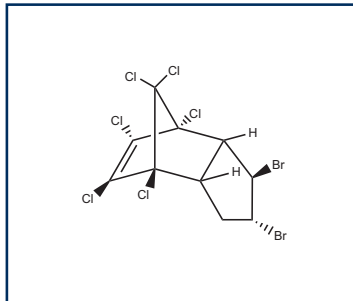
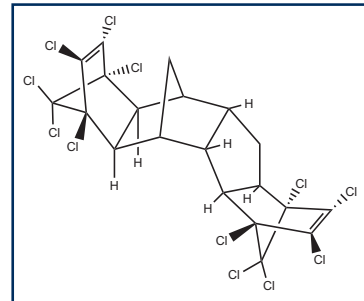
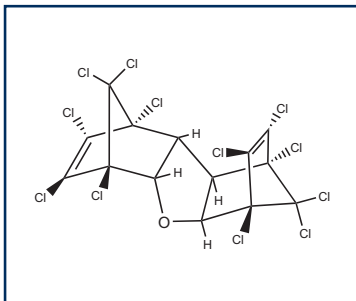
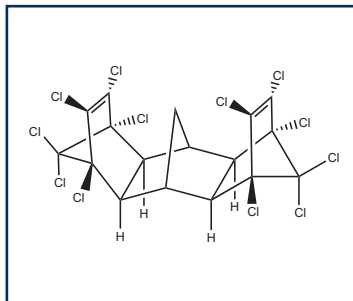
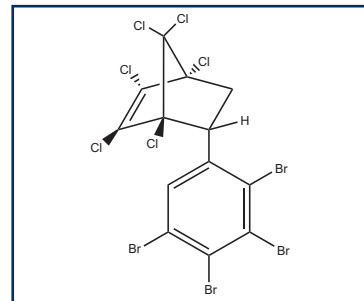
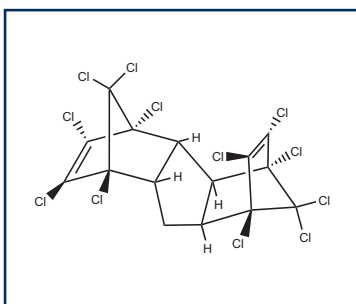
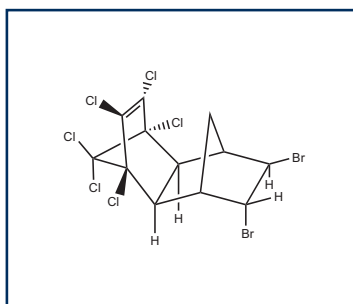
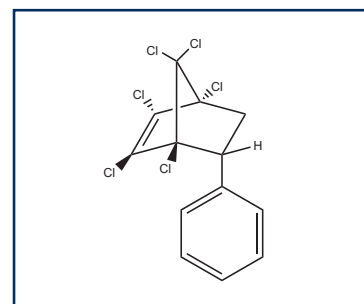


**NEW HALOGENATED FLAME RETARDANTS****EFRs (Experimental Flame Retardants)**

Halogenated flame retardants are most often associated with high profile brominated compounds such as polybrominated diphenyl ethers (PBDEs). However, the production, use, and fate of chlorinated and mixed chlorinated/brominated flame retardants has started to garner more attention recently due to reports of their presence in various environmental samples. For instance, it is believed that a family of flame retardants arising from Diels-Alder reactions of hexachlorocyclopentadiene has been in use for many years (e.g. Dechlorane Plus, Dec-604, etc.) albeit, in some cases, at an experimental level. In response to this, Wellington has synthesized the following series of compounds:

**1,3-DPMA****DBC****Dec-601****Dec-602****Dec-603****Dec-604****CPlus****DBALD****HCPN**

Catalogue Number	Product (toluene)	Qty	Conc
<b>1,3-DPMA</b>	1,3-Dechlorane Plus® Mono Adduct	1.2 ml	50 µg/ml
<b>DBCD</b>	Dibromochlordene	1.2 ml	50 µg/ml
<b>Dec-601</b>	Dechlorane 601	1.2 ml	50 µg/ml
<b>Dec-602</b>	Dechlorane 602	1.2 ml	50 µg/ml
<b>Dec-603</b>	Dechlorane 603	1.2 ml	50 µg/ml
<b>Dec-604</b>	Dechlorane 604	1.2 ml	50 µg/ml
<b>CPlus</b>	Chlordene Plus	1.2 ml	50 µg/ml
<b>DBALD</b>	Dibromoaldrin	1.2 ml	50 µg/ml
<b>HCPN</b>	Hexachloro(phenyl)norbornene	1.2 ml	50 µg/ml

Dechlorane Plus® is a registered trademark of Occidental Chemical Corporation.

#### IUPAC NAMES:

<b>1,3-DPMA</b>	= <i>rac</i> -(1 <i>R</i> ,2 <i>R</i> ,9 <i>S</i> ,10 <i>S</i> )-1,10,11,12,13,13-hexachlorotricyclo[8.2.1.0 <sup>2,9</sup> ]-trideca-3,11-diene
<b>DBCD</b>	= <i>rac</i> -(1 <i>R</i> ,2 <i>R</i> ,3 <i>aS</i> ,4 <i>S</i> ,7 <i>R</i> ,7 <i>aR</i> )-1,2-dibromo-4,5,6,7,8,8-hexachloro-2,3,3 <i>a</i> ,4,7,7 <i>a</i> -hexahydro-1 <i>H</i> -4,7-methanoindene
<b>Dec-601</b>	= <i>rac</i> -(1 <i>R</i> ,2 <i>S</i> ,3 <i>S</i> ,4 <i>S</i> ,7 <i>R</i> ,8 <i>R</i> ,10 <i>S</i> ,11 <i>S</i> ,12 <i>S</i> ,13 <i>S</i> ,16 <i>R</i> ,17 <i>R</i> )-4,5,6,7,13,14,15,16,19,19,20,20-dodecachloroheptacyclo[9.6.1.1 <sup>4,7</sup> .1 <sup>13,16</sup> .0 <sup>2,10</sup> .0 <sup>3,8</sup> .0 <sup>12,17</sup> ]icosa-5,14-diene
<b>Dec-602</b>	= 1,2,3,4,6,7,8,9,10,10,11,11-dodecachloro-1,4,4 <i>a</i> ,5 <i>a</i> ,6,9,9 <i>a</i> ,9 <i>b</i> -octahydro-1,4:6,9-dimethanodibenzofuran
<b>Dec-603</b>	= 1,2,3,4,5,6,7,8,12,12,13,13-dodecachloro-1,4,4 <i>a</i> ,5,8,8 <i>a</i> ,9,9 <i>a</i> ,10,10 <i>a</i> -decahydro-1,4:5,8:9,10-trimethanoanthracene
<b>Dec-604</b>	= <i>endo</i> -5-(2,3,4,5-tetrabromophenyl)-1,2,3,4,7,7-hexachloro-bicyclo[2.2.1]hept-2-ene
<b>CPlus</b>	= <i>rac</i> -(1 <i>R</i> ,4 <i>S</i> ,4 <i>aR</i> ,4 <i>bR</i> ,5 <i>S</i> ,8 <i>R</i> ,8 <i>aR</i> ,9 <i>aR</i> )-1,2,3,4,5,6,7,8,10,10,11,11-dodecachloro-4,4 <i>a</i> ,4 <i>b</i> ,5,8,8 <i>a</i> ,9,9 <i>a</i> -octahydro-1 <i>H</i> -1,4:5,8-dimethanofluorene
<b>DBALD</b>	= <i>rac</i> -(1 <i>R</i> ,2 <i>S</i> ,3 <i>S</i> ,4 <i>S</i> ,4 <i>aS</i> ,5 <i>R</i> ,8 <i>S</i> ,8 <i>aR</i> )-2,3-dibromo-5,6,7,8,9,9-hexachloro-1,2,3,4,4 <i>a</i> ,5,8,8 <i>a</i> -octahydro-1,4:5,8-dimethanonaphthalene
<b>HCPN</b>	= <i>endo</i> -5-phenyl-1,2,3,4,7,7-hexachloro-bicyclo[2.2.1]hept-2-ene

Please contact your local distributor or [info@well-labs.com](mailto:info@well-labs.com) for pricing and delivery.

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