


Supplement of Atmos. Chem. Phys., 14, 4441–4457, 2014  
<http://www.atmos-chem-phys.net/acp-14-4441-2014/>  
doi:10.5194/acp-14-4441-2014-supplement  
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Atmospheric  
Chemistry  
and Physics  
Open Access 

*Supplement of*

## **Atmospheric deposition of polybromodiphenyl ethers in remote mountain regions of Europe**

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Table S1. IUPAC name and Chemical Abstract Service (CAS) number of target PBDEs (see Figure S1 for chemical structure).

		<b>IUPAC name</b>	<b>CAS N°</b>
Tribromo BDEs	BDE17	2,2',4-Tribromodiphenyl ether	147217-75-2
	BDE28	2,4,4'-Tribromodiphenyl ether	41318-75-6
Tetrabromo BDEs	BDE47	2,2',4,4'-Tetrabromodiphenyl ether	5436-43-1
	BDE66	2,3',4,4'-Tetrabromodiphenyl ether	189084-61-5
	BDE71	2,3',4',6-Tetrabromodiphenyl ether	189084-62-6
Pentabromo BDEs	BDE85	2,2',3,4,4'-Pentabromodiphenyl ether	182346-21-0
	BDE99	2,2',4,4',5-Pentabromodiphenyl ether	60328-60-9
	BDE100	2,2',4,4',6-Pentabromodiphenyl ether	189084-64-8
Hexabromo BDEs	BDE153	2,2',4,4',5,5'-Hexabromodiphenyl ether	68631-49-2
	BDE154	2,2',4,4',5,6'-Hexabromodiphenyl ether	207122-15-4
	BDE138	2,2',3,4,4',5'-Hexabromodiphenyl ether	182677-30-1
Heptabromo BDEs	BDE183	2,2',3,4,4',5',6-Heptabromodiphenyl ether	207122-16-5
	BDE190	2,3,3',4,4',5,6-Heptabromodiphenyl ether	30338
Decabromo BDE	BDE209	Decabromodiphenyl ether	1163-19-5

Table S2. Method detection (MDL) and quantification (MQL) limits in  $\text{ng m}^{-2}$ 

	<b>MDL</b>	<b>MQL</b>
<b>BDE28</b>	1.14	1.15
<b>BDE71</b>	0.78	0.92
<b>BDE47</b>	3.12	3.89
<b>BDE66</b>	1.57	1.91
<b>BDE100</b>	1.69	2.26
<b>BDE99</b>	3.18	3.39
<b>BDE154</b>	0.66	0.85
<b>BDE153</b>	0.94	1.03
<b>BDE183</b>	1.41	1.44
<b>BDE209</b>	40.9	42.0

Table S3. BDE congeners in blanks (average of all method and field blanks) in  $\text{ng m}^{-2}$ 

<b>BDE28</b>	1.13
<b>BDE71</b>	0.56
<b>BDE47</b>	1.97
<b>BDE66</b>	1.06
<b>BDE100</b>	0.83
<b>BDE99</b>	2.88
<b>BDE154</b>	0.33
<b>BDE153</b>	0.81
<b>BDE183</b>	1.36
<b>BDE209</b>	39.2

Figure S1. General chemical structure of PBDEs ( $m + n = 1-10$ )