



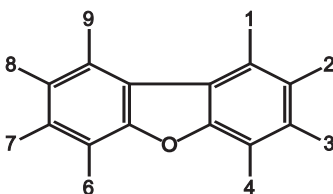
December 4, 2009

NEW PRODUCTS

Native and Mass-labelled Mixed Bromo/Chloro Dibenzofurans

Although the formation of mixed halogenated (Br/Cl) dibenzofurans, also known as PXDFs, has been known to occur in waste incinerators for over 20 years, only recently has there been renewed interest in these compounds. The increased production of brominated flame retardants and their subsequent use in consumer products has been associated with a rise in bromine levels in waste combustion. The exact mechanism of PXDF formation is still debated, but it is generally accepted that as the number of bromine sources present during waste incineration increases, so too do the levels of PXDFs in the emissions.

Mixed halogenated dibenzofurans have also been reported to be as potentially toxic as their fully chlorinated analogues, especially when they are substituted in the 2,3,7,8 positions. However, since there are 3320 possible isomers containing varying degrees of bromine and chlorine, it is important to possess analytical standards for the potentially most toxic. For this reason, **Wellington** has synthesized 5 new native PXDFs and 5 new $^{13}\text{C}_{12}$ -PXDFs.

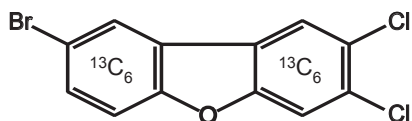


Catalogue Number	Product (toluene solution)	Qty/Conc
M8-B-23-CDF	8-Bromo-2,3-dichloro[$^{13}\text{C}_{12}$]dibenzofuran	1.2 ml 50 µg/ml
M23-B-78-CDF	2,3-Dibromo-7,8-dichloro[$^{13}\text{C}_{12}$]dibenzofuran	1.2 ml 50 µg/ml
M3-B-278-CDF	3-Bromo-2,7,8-trichloro[$^{13}\text{C}_{12}$]dibenzofuran	1.2 ml 50 µg/ml
M13-B-278-CDF	1,3-Dibromo-2,7,8-trichloro[$^{13}\text{C}_{12}$]dibenzofuran	1.2 ml 50 µg/ml
M4-B-2378-CDF	4-Bromo-2,3,7,8-tetrachloro[$^{13}\text{C}_{12}$]dibenzofuran	1.2 ml 50 µg/ml
23-B-78-CDF	2,3-Dibromo-7,8-dichlorodibenzofuran	1.2 ml 50 µg/ml
12-B-78-CDF	1,2-Dibromo-7,8-dichlorodibenzofuran	1.2 ml 50 µg/ml
3-B-278-CDF	3-Bromo-2,7,8-trichlorodibenzofuran	1.2 ml 50 µg/ml
13-B-278-CDF	1,3-Dibromo-2,7,8-trichlorodibenzofuran	1.2 ml 50 µg/ml
4-B-2378-CDF	4-Bromo-2,3,7,8-tetrachlorodibenzofuran	1.2 ml 50 µg/ml

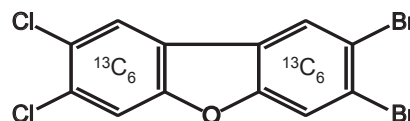
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The following table contains all of the mixed Bromo/Chloro Dibenzofurans currently available from Wellington.

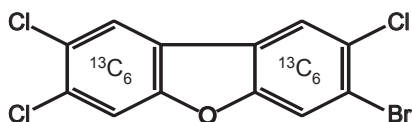
	Catalogue Number	Product (toluene solution)	Qty/Conc
NEW	M8-B-23-CDF	8-Bromo-2,3-dichloro[¹³ C ₁₂]dibenzofuran	1.2 ml 50 µg/ml
NEW	M23-B-78-CDF	2,3-Dibromo-7,8-dichloro[¹³ C ₁₂]dibenzofuran	1.2 ml 50 µg/ml
NEW	M3-B-278-CDF	3-Bromo-2,7,8-trichloro[¹³ C ₁₂]dibenzofuran	1.2 ml 50 µg/ml
NEW	M13-B-278-CDF	1,3-Dibromo-2,7,8-trichloro[¹³ C ₁₂]dibenzofuran	1.2 ml 50 µg/ml
NEW	M4-B-2378-CDF	4-Bromo-2,3,7,8-tetrachloro[¹³ C ₁₂]dibenzofuran	1.2 ml 50 µg/ml
	8-B-23-CDF	8-Bromo-2,3-dichlorodibenzofuran	1.2 ml 50 µg/ml
NEW	23-B-78-CDF	2,3-Dibromo-7,8-dichlorodibenzofuran	1.2 ml 50 µg/ml
NEW	12-B-78-CDF	1,2-Dibromo-7,8-dichlorodibenzofuran	1.2 ml 50 µg/ml
NEW	3-B-278-CDF	3-Bromo-2,7,8-trichlorodibenzofuran	1.2 ml 50 µg/ml
	8-B-234-CDF	8-Bromo-2,3,4-trichlorodibenzofuran	1.2 ml 50 µg/ml
NEW	13-B-278-CDF	1,3-Dibromo-2,7,8-trichlorodibenzofuran	1.2 ml 50 µg/ml
NEW	4-B-2378-CDF	4-Bromo-2,3,7,8-tetrachlorodibenzofuran	1.2 ml 50 µg/ml



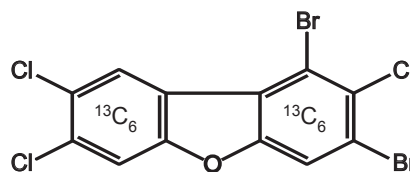
M8-B-23-CDF



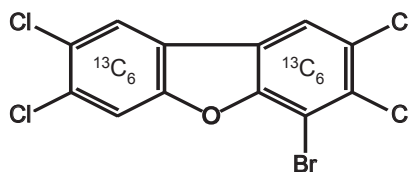
M23-B-78-CDF



M3-B-278-CDF



M13-B-278-CDF



M4-B-2378-CDF

