



## **NEW PRODUCTS**

### **NATIVE/MASS-LABELLED HALOGENATED CARBAZOLES**

Halogenated carbazoles have recently been recognized as emerging environmental contaminants, but research groups have been reporting their existence in environmental samples since 1984. There may be multiple sources of these pollutants, but it has recently been suggested that they were produced as by-products during the synthesis of halogenated indigo dyes. Since unsubstituted carbazoles are known to be lost during acid silica clean-up, it is very important that reference standards be used when processing samples.

In order to aid researchers in the detection of halogenated carbazoles in environmental samples, **Wellington** has produced certified reference standards of selected halogenated carbazoles (**CCZ-3**, **CCZ-36**, **CCZ-1368**, **CCZ-2367**, **BCZ-3**, **BCZ-27**, **BCZ-136**, **BCZ-1368**, **1-B-36-CCZ**, and **18-B-36-CCZ**) as well as two certified reference standards of mass-labelled chlorinated carbazoles (**MCCZ-36** and **MCCZ-1368**).

Catalogue Number	Product (nonane)	Qty	Conc
<b>MCCZ-36</b>	3,6-Dichloro-9H-[ <sup>13</sup> C <sub>12</sub> ]carbazole	1.2 ml	50 µg/ml
<b>MCCZ-1368</b>	1,3,6,8-Tetrachloro-9H-[ <sup>13</sup> C <sub>12</sub> ]carbazole	1.2 ml	50 µg/ml

Catalogue Number	Product (nonane)	Qty	Conc
<b>CCZ-3</b>	3-Chloro-9H-carbazole	1.2 ml	50 µg/ml
<b>CCZ-36</b>	3,6-Dichloro-9H-carbazole	1.2 ml	50 µg/ml
<b>CCZ-1368</b>	1,3,6,8-Tetrachloro-9H-carbazole	1.2 ml	50 µg/ml
<b>CCZ-2367</b>	2,3,6,7-Tetrachloro-9H-carbazole	1.2 ml	50 µg/ml

Catalogue Number	Product (nonane)	Qty	Conc
<b>BCZ-3</b>	3-Bromo-9H-carbazole	1.2 ml	50 µg/ml
<b>BCZ-27</b>	2,7-Dibromo-9H-carbazole	1.2 ml	50 µg/ml
<b>BCZ-136</b>	1,3,6-Tribromo-9H-carbazole	1.2 ml	50 µg/ml
<b>BCZ-1368</b>	1,3,6,8-Tetrabromo-9H-carbazole	1.2 ml	50 µg/ml

Catalogue Number	Product (nonane)	Qty	Conc
<b>1-B-36-CCZ</b>	1-Bromo-3,6-Dichloro-9H-carbazole	1.2 ml	50 µg/ml
<b>18-B-36-CCZ</b>	1,8-Dibromo-3,6-Dichloro-9H-carbazole	1.2 ml	50 µg/ml

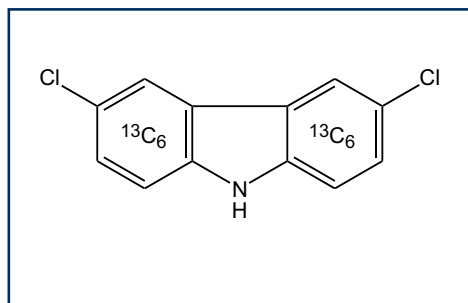
Distributed Throughout Europe and Middle East By-



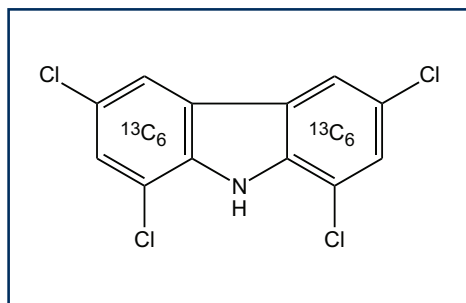
Greyhound Chromatography & Allied Chemicals  
6 Kelvin Park, Birkenhead,  
Merseyside, CH41 1LT, U.K.  
Tel: (+44)-0-151-649-4000 Fax: (+44)-0-151-649-4001  
E-mail: [info@greyhoundchrom.com](mailto:info@greyhoundchrom.com)  
Web: [www.greyhoundchrom.com](http://www.greyhoundchrom.com)



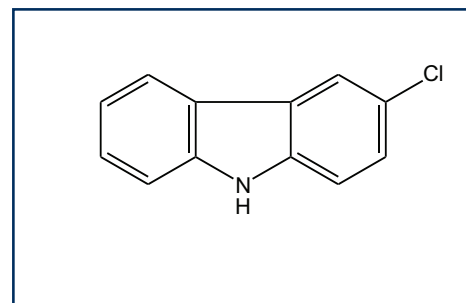
## NATIVE & MASS-LABELLED HALOGENATED CARBAZOLES



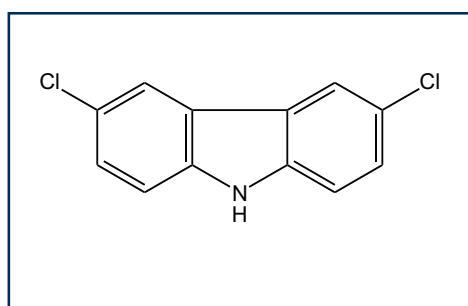
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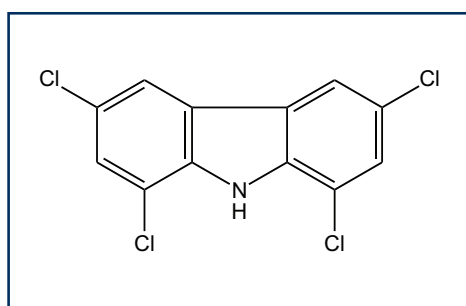
**MCCZ-1368**



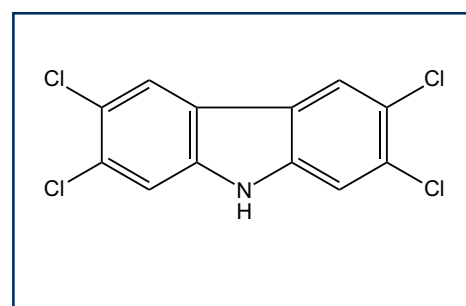
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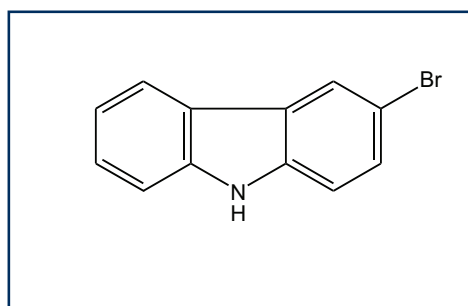
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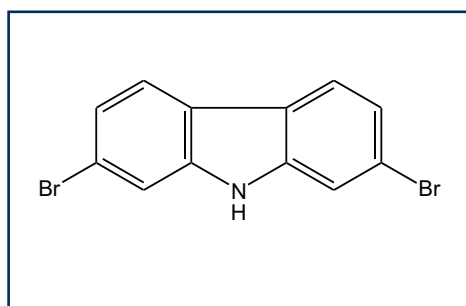
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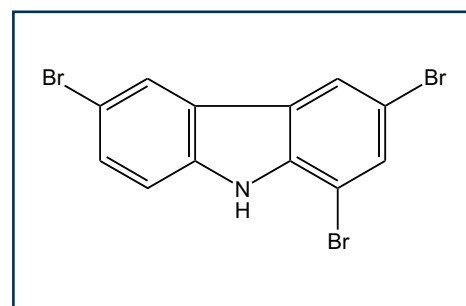
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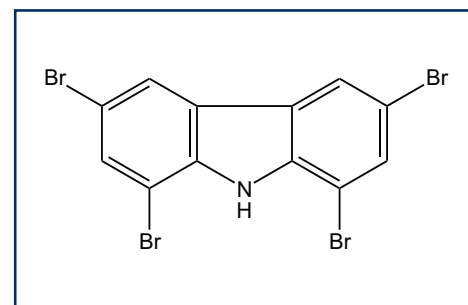
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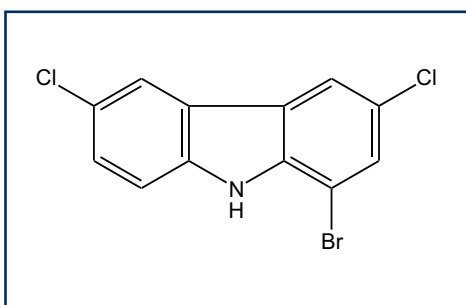
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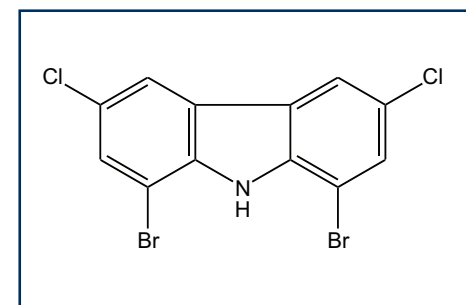
**BCZ-136**



**BCZ-1368**



**1-B-36-CCZ**



**18-B-36-CCZ**

