

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue P216692

Number:

PCB 209-13C12 Product:

Structure:

ÇI CI 3C CI _{13C}-CI

Lot 5-MPT-157-7 Number:

This Product Is Stable To Be Shipping Condition: Shipped At Room Temperature CAS 105600-27-9 Number:

Synonym: 2,2',3,3',4,4',5,5',6,6'-Decachloro-1,1'-

biphenyl-1,1',2,2',3,3',4,4',5,5',6,6'-13C12; 13C12-DeCB; 13C12-Decachlorobiphenyl;

13C12-PCB 209

Molecular Formula:

13C12Cl10

Molecular weight:

510.57

Source of Product:

Synthetic

Solubility:

Chloroform (Sparingly), Dichloromethane (Slightly),

Methanol (Slightly)

Purity: 95%

Storage Condition: 4°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Additional Information:

Tests: Specifications: Results:

Appearance Off-White to Pale Brown Solid Off-White to Pale Beige Solid

95.26% GC Purity Report Result **NMR** Conforms to Structure Conforms C NMR Conforms to Structure Conforms **Isotopic Purity** >95% 98.0% Conforms to Structure Conforms MS

Observed Intensity: 13C0 = 0.03%, 13C1 = 0.00%, 13C2 =

0.00%, 13C3 = 0.03%, 13C4 = 0.00%, 13C5 = 0.01%, 13C6 = 0.00%

0.00%, 13C7 = 0.00%, 13C8 = 0.00%, 13C9 = 0.00%, 13C10 =

10.99%, 13C11 = 0.00%, 13C12 = 85.82%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

C of A Approved **Test Date Reviewed By Reviewed By Retest Date** Sarbjeet Kaur Toni Rantanen Chanell Chu 5/24/2023 5/22/2027