Certificate of Analysis

Reference Material & Standard

Product Name:	PBBS-Mix 10	**Catalogue Number:**	LCEM100017-TI
Appearance:	Colourless Liquid	**Lot Number:**	1102-RH-0078
Solvent:	Toluene:Isooctane=40:60	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Aug 08, 2029		
		Shipping Condition:	Shipping at Room Temperature

Chemical Structure:

N/A

NO.	Component	CAS No.	Certified Concentration Value (μg/mL)	Uncertainty (μg/mL)
1	PBB 180	67733-52-2	100	3
2	PBB 153	59080-40-9	100	3
3	2,2’,3,3’,4,4’,5,5’,6-Nonabromobiphenyl	69278-62-2	100	3
4	PBB No. 103	59080-39-6	100	3
5	4,4'-Dibromobiphenyl	92-86-4	100	3
6	Pbb-No. 18	59080-34-1	100	3
7	Decabromobiphenyl	13654-09-6	100	3
8	4-Bromobiphenyl	92-66-0	100	3
9	PBB No. 52	59080-37-4	100	3
10	2,2',3,3',4,4',5,5'-Octabromobiphenyl	67889-00-3	100	3

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Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by: Lisa Date: Nov 06, 2026

Reviewed by: Alice Date: Nov 06, 2026

Approved by General Manager: David Date: Nov 06, 2026

CATO Research Chemicals Inc.