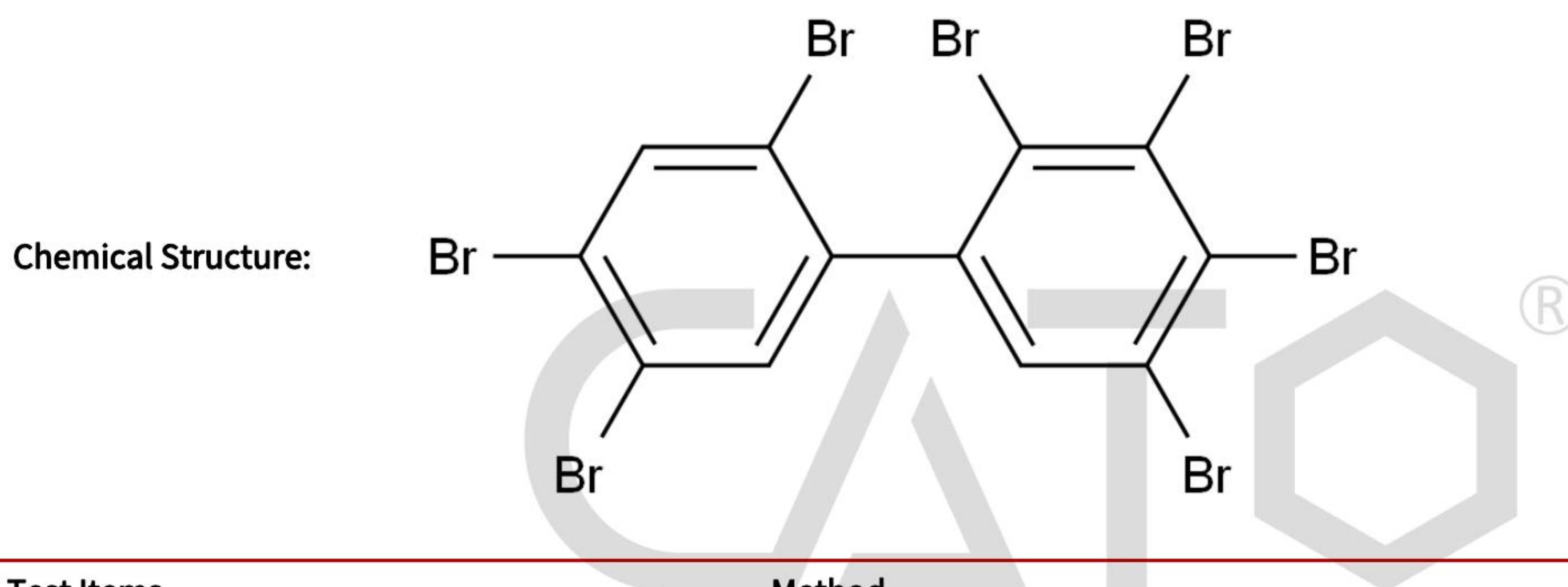


Certificate of Analysis

Reference Material & Standard

Product Name:	PBB 180	Catalogue Number:	CCEM100222
Synonyms:	N/A	Lot Number:	0620-RG-0091
CAS Number:	67733-52-2	Expiry Date:	Jun 25, 2030
Molecular Formula:	C ₁₂ H ₃ Br ₇	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	706.48		



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	94.55%
Loss On Drying	TGA	0.2141%
Assay		94.3%
Uncertainty		±1.0%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity GC (\%)} / 100\%$$

Loss On Drying is considered as absolute effect, GC purity is considered as relative effect.

2. 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:

Nice

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jun 26, 2025

Date: Jun 27, 2025

Date: Jun 27, 2025

