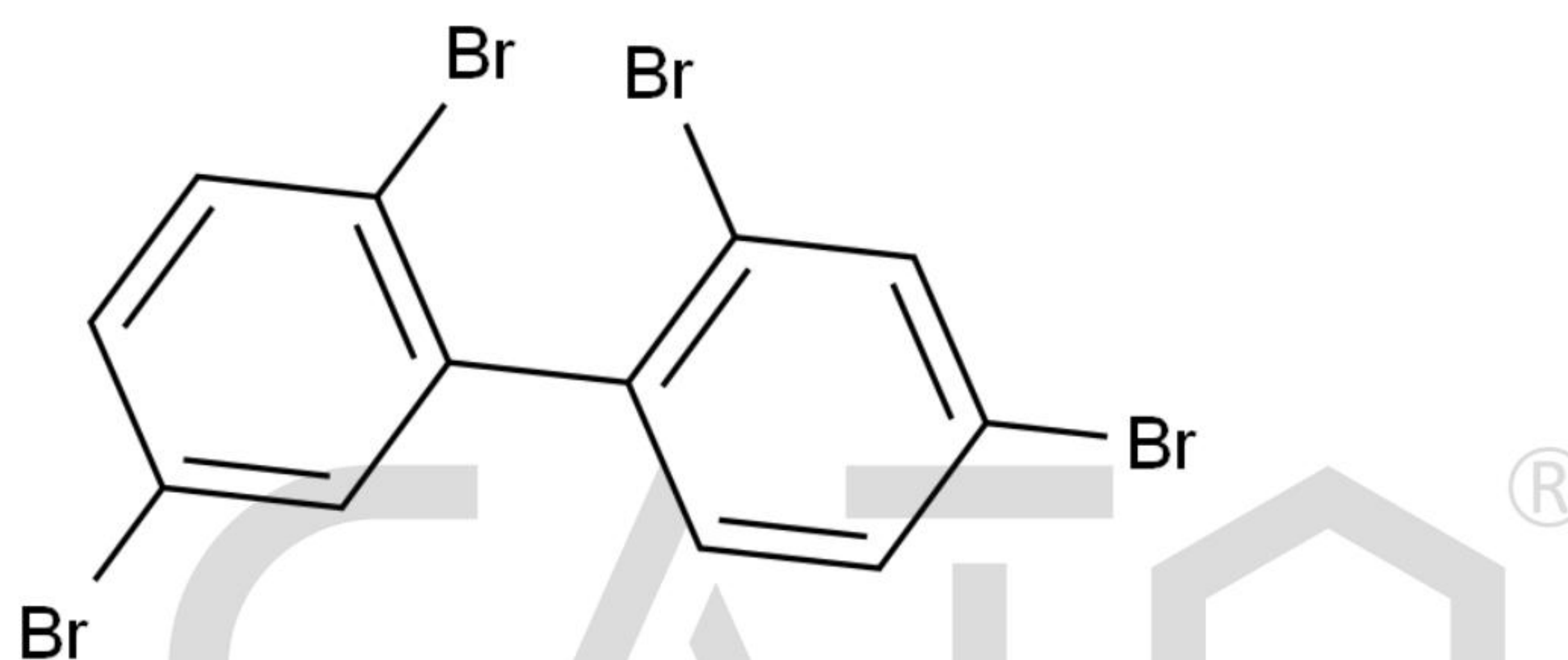


# Certificate of Analysis

## Reference Material

|                    |                                                |                   |                                           |
|--------------------|------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | PBB-No. 49                                     | Catalogue Number: | CWLT600241                                |
| Chemical Name:     | N/A                                            | Lot Number:       | 1017-RD-0062                              |
| CAS Number:        | 60044-24-8                                     | Expiry Date:      | Sep 09, 2027                              |
| Molecular Formula: | C <sub>12</sub> H <sub>6</sub> Br <sub>4</sub> | Storage:          | Room Temp Protected from light and Sealed |
| Molecular Weight:  | 469.79                                         |                   |                                           |

Chemical Structure:



| Test Items    | Method            | Results                     |
|---------------|-------------------|-----------------------------|
| Appearance    | Visual inspection | Yellowish Crystalline Solid |
| Purity        | GC                | 99.37%                      |
| Water Content | Karl Fischer      | 0.3723%                     |
| Assay         |                   | 99.0%                       |
| Uncertainty   |                   | ±2.0%                       |

## Comment:

- No chromatogram available.
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):  

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity GC (\%)} / 100\%$$

Water Content is considered as absolute effect, GC purity is considered as relative effect.
- 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:

*Xenia*

Reviewed by:

*Hinlam*

Aporoved by General manager:

*David*

Date: Sep 09, 2021

Date: Oct 21, 2022

Date: Oct 21, 2022

