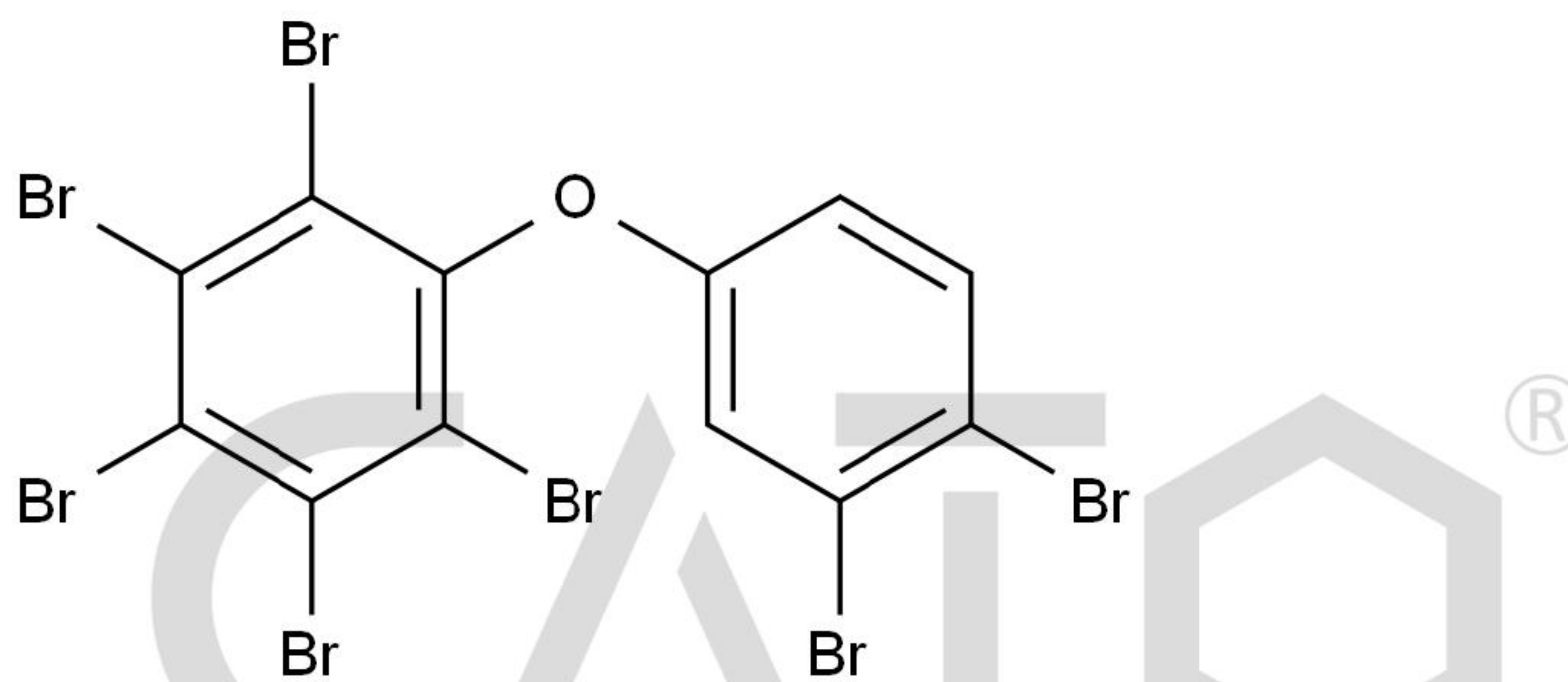


Certificate of Analysis

Reference Material & Standard

Product Name:	2,3,3',4,4',5,6-Heptabromodiphenyl Ether	Catalogue Number:	CCEM501860
Synonyms:	N/A	Lot Number:	0711-RF-0010
CAS Number:	189084-68-2	Expiry Date:	Jul 16, 2026
Molecular Formula:	C ₁₂ H ₃ Br ₇ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	722.48		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	HRMS&IR&HNMR	Confirmed
Purity	HPLC	99.7539%
Water Content	Karl Fischer	0.10%
Residual Solvents	NMR	0.1% dichloromethane
Assay		99.6%
Uncertainty		±2.0%

Comment:

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

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC 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:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jul 15, 2024

Date: Jul 15, 2024

Date: Jul 15, 2024

