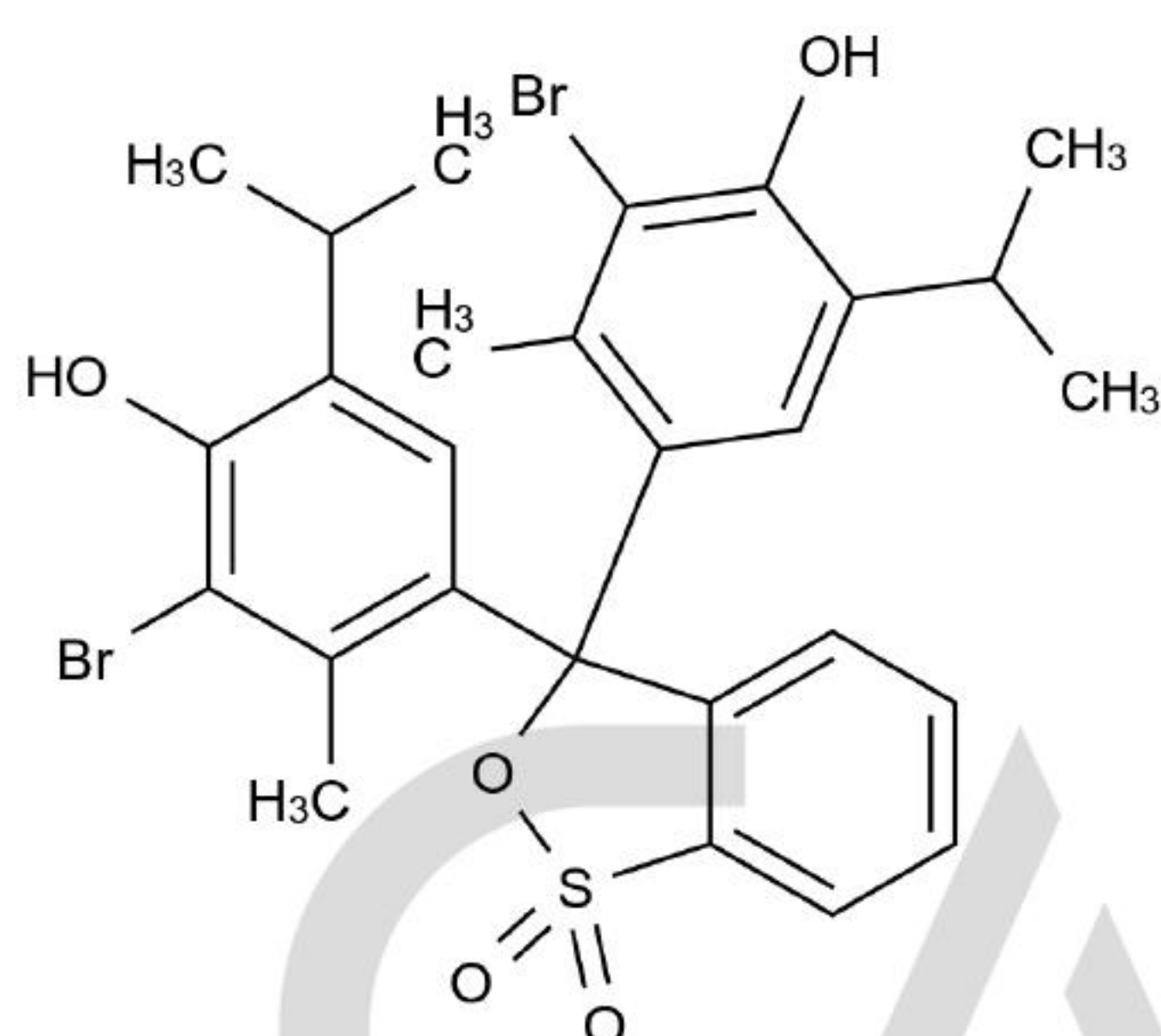


Certificate of Analysis

Reference Material

Product Name:	Bromothymol Blue	Catalogue Number:	CWLT600886
Chemical Name:	N/A	Lot Number:	0428-RE-0154
CAS Number:	76-59-5	Expiry Date:	May 10, 2027
Molecular Formula:	C ₂₇ H ₂₈ Br ₂ O ₅ S	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	624.38		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Purple Powder
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Loss On Drying	TGA	0.0235%
Assay		99.9%
Uncertainty		±2.0%

Comment:

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

Assay (%) = (100% - Loss On Drying) * Purity ELSD (%) / 100%

Loss On Drying is considered as absolute effect, ELSD 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:

Hinlam

Reviewed by:

Xenia

Aporoved by General manager:

David

Date: May 11, 2023

Date: May 12, 2023

Date: May 12, 2023

