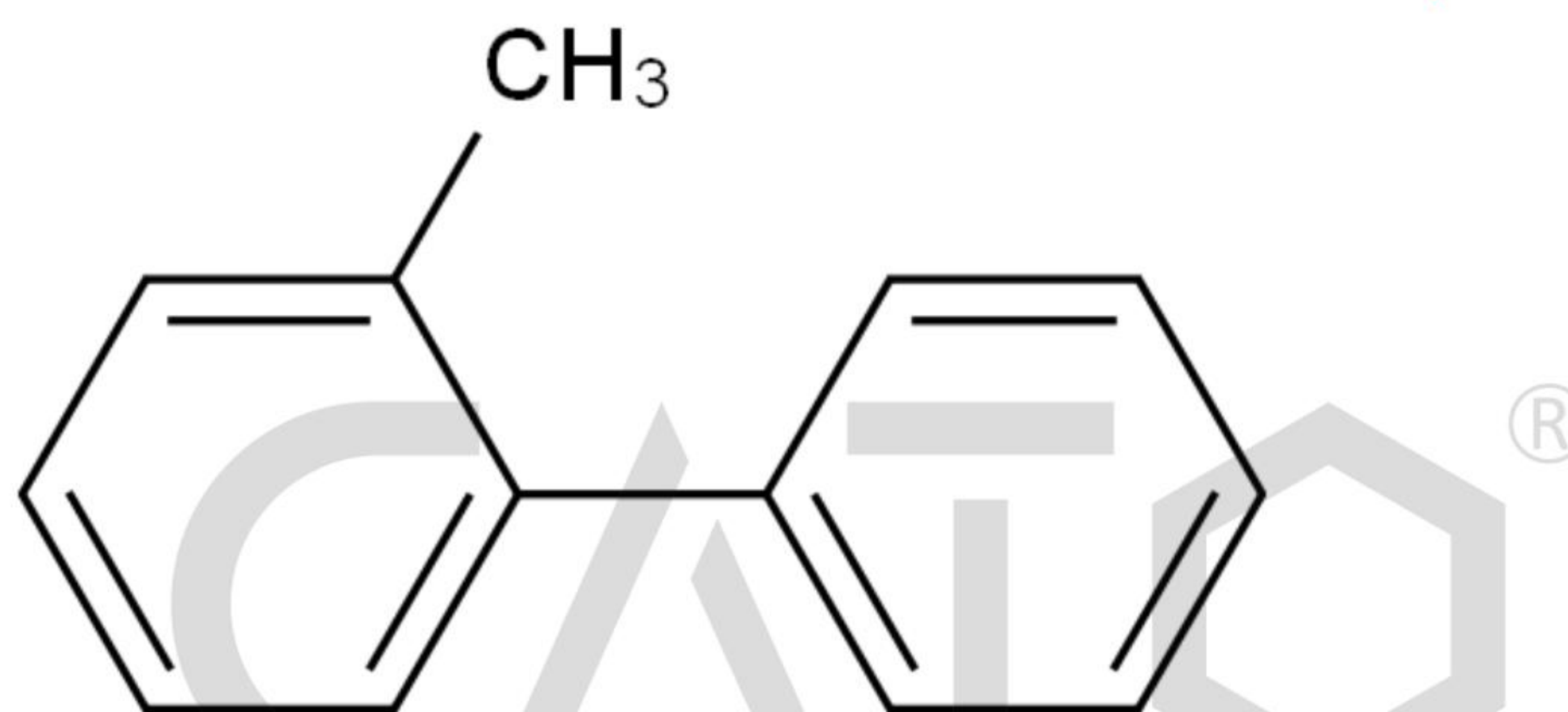


Certificate of Analysis

Reference Material & Standard

Product Name:	2-Methylbiphenyl	Catalogue Number:	CCHM701794
Synonyms:	N/A	Lot Number:	0917-RC-0022
CAS Number:	643-58-3	Expiry Date:	Mar 30, 2029
Molecular Formula:	C ₁₃ H ₁₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	168.23	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Clear Colorless to Pale Yellow Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.69691%
Water Content	Karl Fischer	0.3064%
Assay		99.4%
Uncertainty		±2.0%

Comment:

- 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:

Nice

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Mar 31, 2025

Date: Mar 31, 2025

Date: Mar 31, 2025

