

# Certificate of Analysis

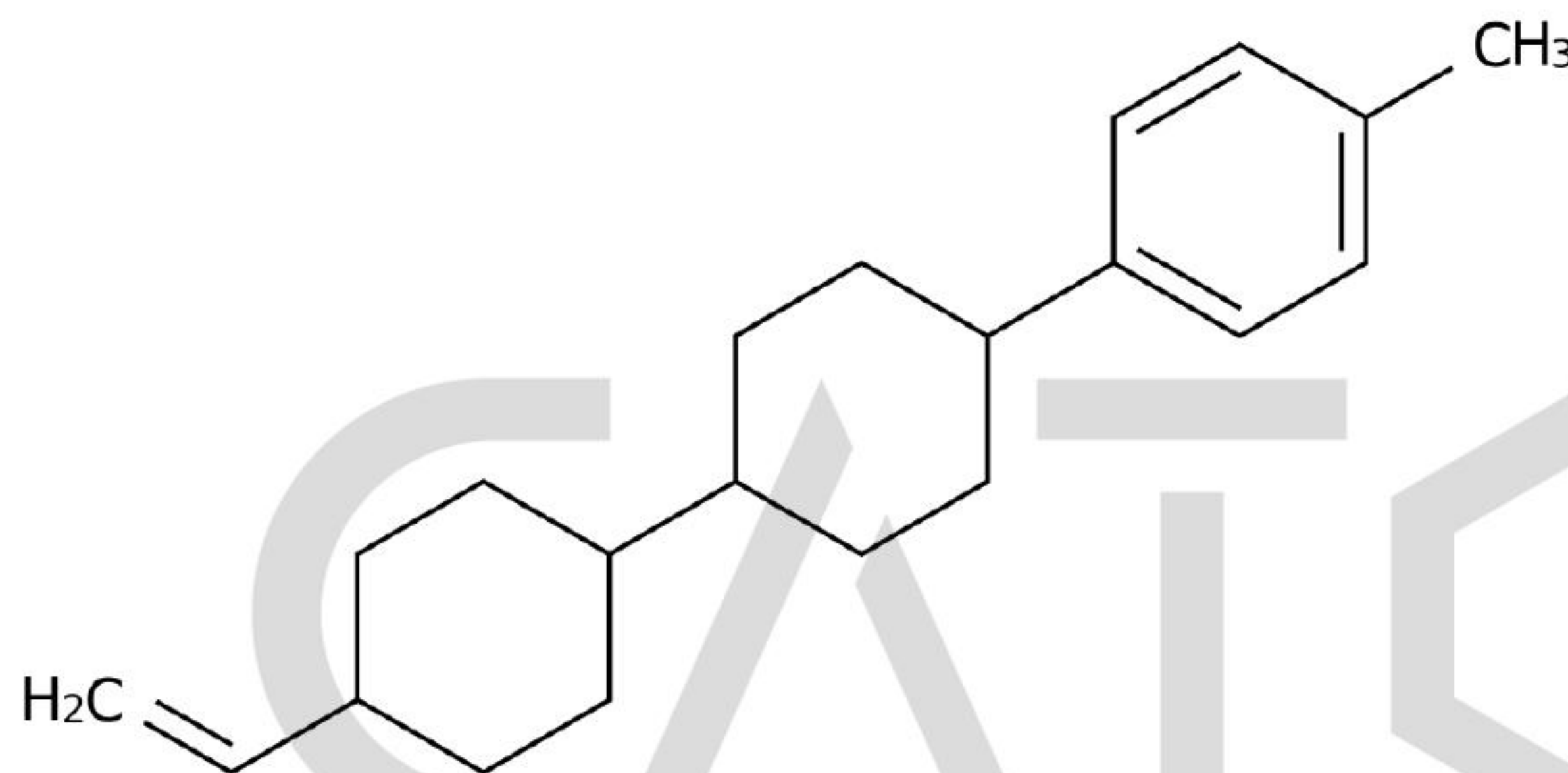
## Reference Material & Standard

|                           |                                                         |                            |                                           |
|---------------------------|---------------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | (trans,trans)-4-(p-Tolyl)-4'-vinyl-1,1'-bi(cyclohexane) | <b>Catalogue Number:</b>   | CCHM704510                                |
| <b>Synonyms:</b>          | N/A                                                     | <b>Lot Number:</b>         | 1201-RG-0080                              |
| <b>CAS Number:</b>        | 155041-85-3                                             | <b>Expiry Date:</b>        | Dec 03, 2029                              |
| <b>Molecular Formula:</b> | C <sub>21</sub> H <sub>30</sub>                         | <b>Storage:</b>            | Room Temp Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 282.46                                                  | <b>Shipping Condition:</b> | Shipping at Room Temperature              |

**Warning:**



**Chemical Structure:**



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | GCMS&HNMR         | Confirmed   |
| Purity         | GC                | 100.000%    |
| Loss On Drying | TGA               | 0.0772%     |
| Assay          |                   | 99.9%       |
| Uncertainty    |                   | ±0.2%       |

## Comment:

- The calculation of the mass balance 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.
- 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:**

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Date: Dec 04, 2025

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