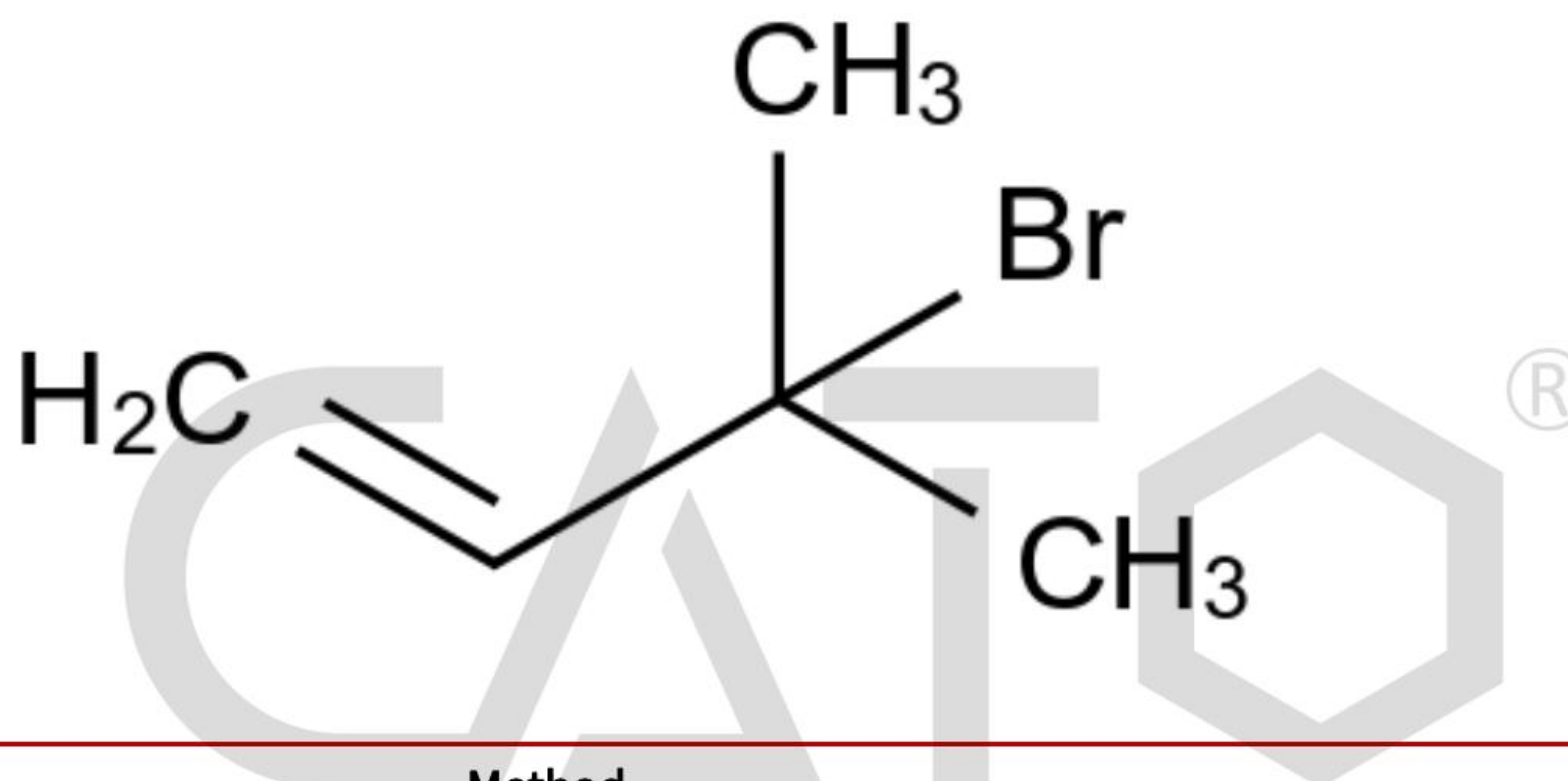


Certificate of Analysis

Reference Material & Standard

Product Name:	Pentazocine impurity 1	Catalogue Number:	C4X-31641
Synonyms:	N/A	Lot Number:	1024-RF-0013
CAS Number:	865-58-7	Expiry Date:	Jun 20, 2027
Molecular Formula:	C ₅ H ₉ Br	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	149.03		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	97.19796%
Water Content	Karl Fischer	0.388%
Residual Solvents	NMR	Not detected in NMR
Assay		96.8%

Comment:

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

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

Water Content and Residual Solvents are considered as absolute effect, GC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Oct 24, 2024

Date: Oct 25, 2024

Date: Oct 25, 2024

