

Certificate of Analysis

Reference Material & Standard

Product Name:	Cis-1,4-Dichloro-2-Butene	Catalogue Number:	CCPD101172
Synonyms:	N/A	Lot Number:	1125-RF-0098
CAS Number:	1476-11-5	Expiry Date:	Nov 24, 2028
Molecular Formula:	C ₄ H ₆ Cl ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	125.00	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	84.421%
Water Content	Karl Fischer	0.4307%
Assay		84.1%
Uncertainty		±2.0%

Comment:

- The calculation of the mass balance 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:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Nov 25, 2024

Date: Nov 25, 2024

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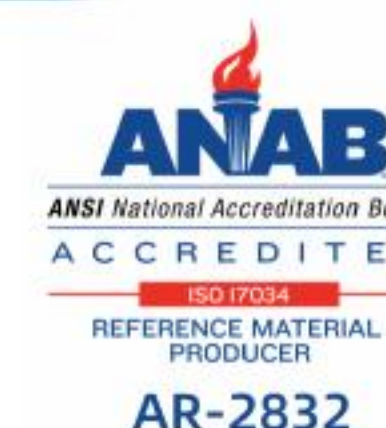
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