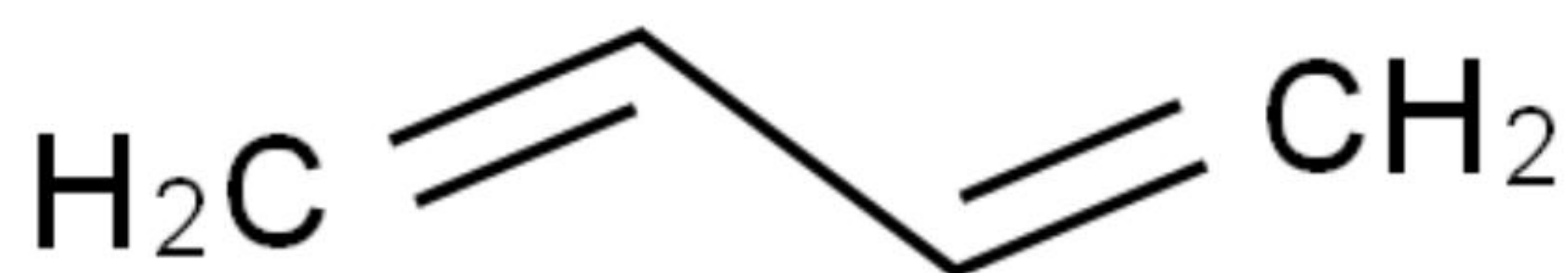


Certificate of Analysis

Reference Material & Standard

Product Name:	1,3-Butadiene	Catalogue Number:	LCEM500959-ME
Appearance:	Colourless Liquid	Lot Number:	0803-RH-0011
Solvent:	Methanol	Storage:	-20°C±5°C Protected from light and Sealed
Expiry Date:	Jun 11, 2029	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



NO.	Component	CAS No.	Certified Concentration Value (µg/mL)	Uncertainty (%)
1	1,3-Butadiene	106-99-0	1000.0	2

Comment:

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.

CATO Research Chemicals Inc.

Signature:

Prepared by:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Aug 04, 2026

Date: Aug 05, 2026

Date: Aug 05, 2026



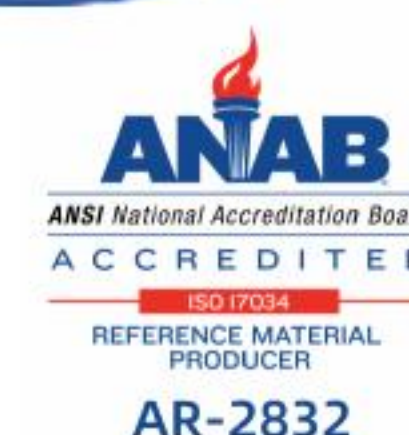
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