

Certificate of Analysis

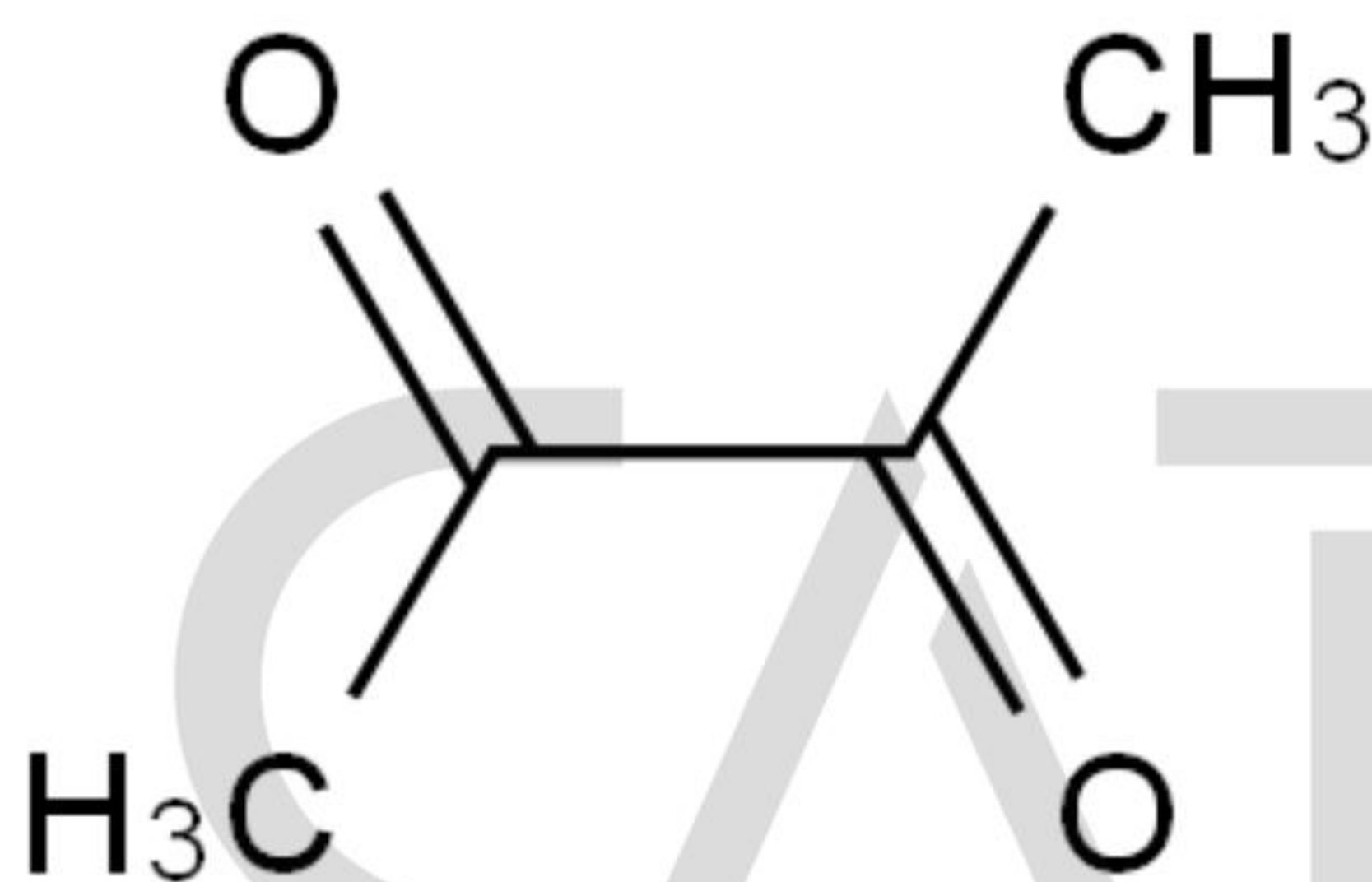
Reference Material & Standard

Product Name:	2,3-Butanedione	Catalogue Number:	CCFD200674
Synonyms:	N/A	Lot Number:	0617-RH-0073
CAS Number:	431-03-8	Expiry Date:	Jun 24, 2030
Molecular Formula:	C ₄ H ₆ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	86.09	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	100.0%
Assay	qNMR	95.2%
Uncertainty		±1.0%

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.

Signature:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 02, 2026

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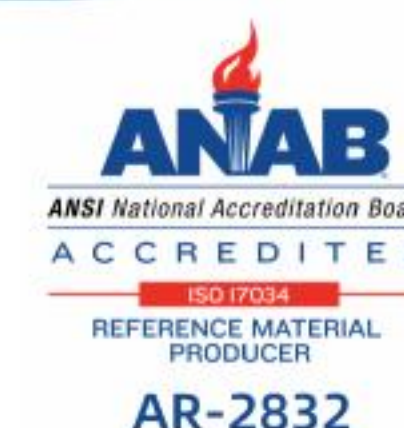
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