

Certificate of Analysis

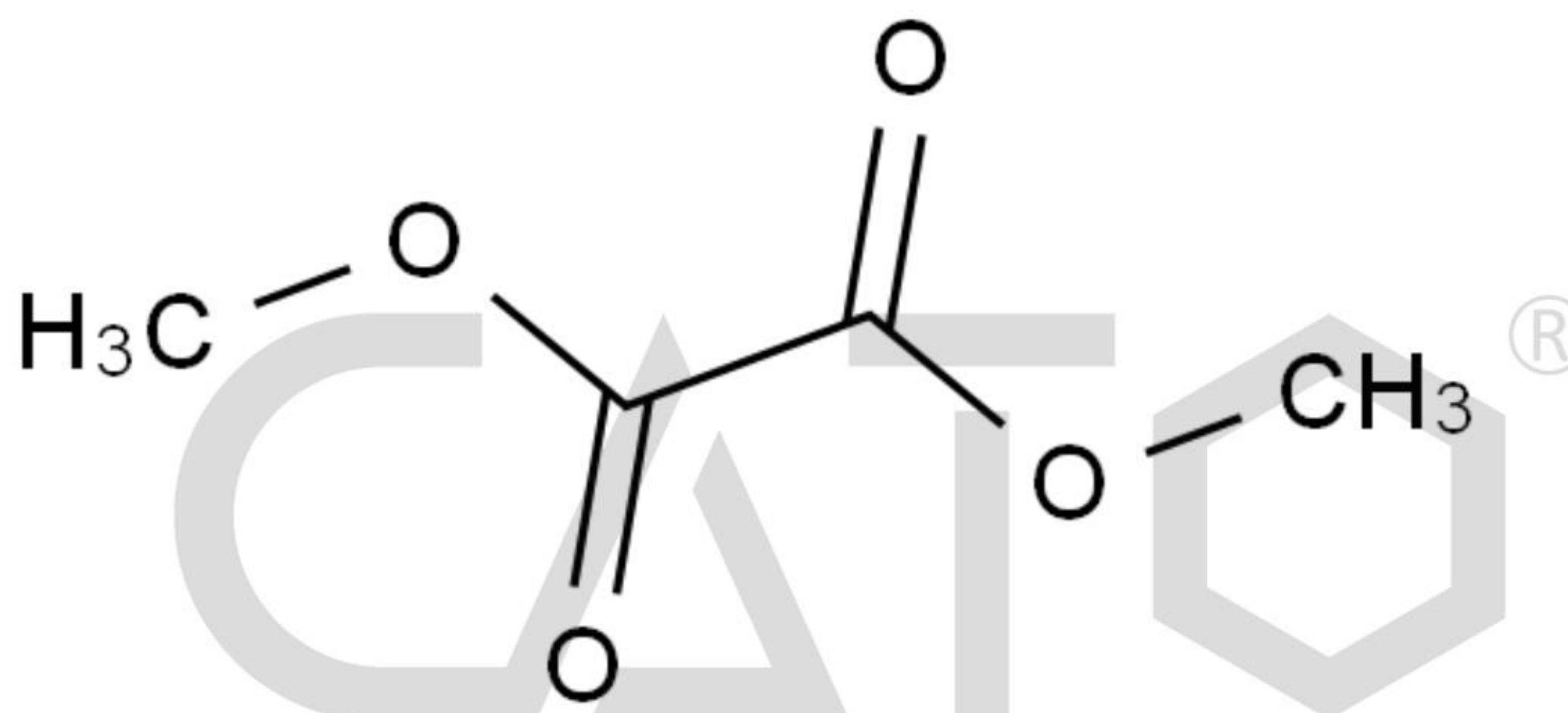
Reference Material & Standard

Product Name:	Dimethyl oxalate	Catalogue Number:	CCFD200209
Synonyms:	N/A	Lot Number:	0916-RG-0140
CAS Number:	553-90-2	Expiry Date:	Sep 15, 2029
Molecular Formula:	C ₄ H ₆ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	118.09		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Crystalline Solid
Identification	GCMS&IR&UV&HNMR	Confirmed
Purity	GC	100.000%
Water Content	Karl Fischer	0.2655%
Assay		99.7%
Uncertainty		±0.2%

Comment:

1. 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.

2. 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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Approved by General Manager:

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Date: Sep 16, 2025

Date: Sep 17, 2025

Date: Sep 17, 2025



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