

Certificate of Analysis

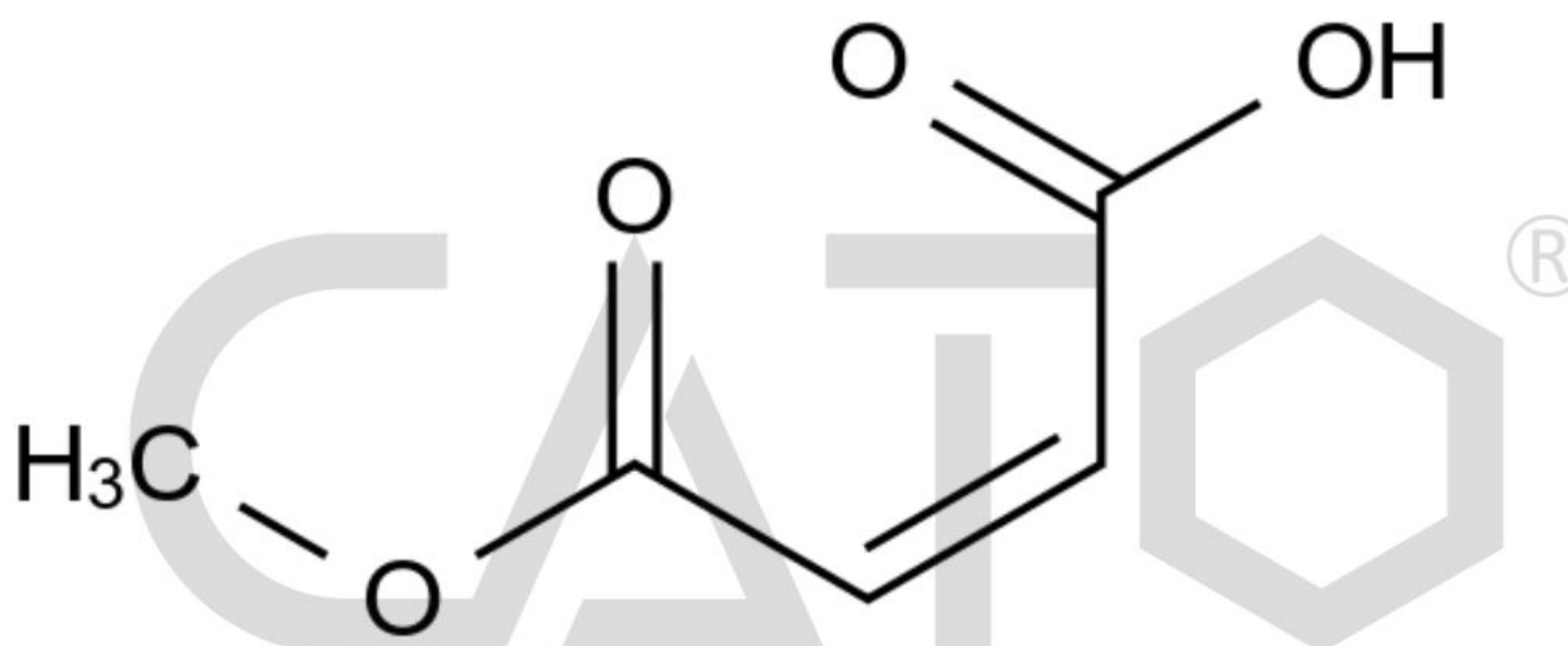
Reference Material & Standard

Product Name:	Monomethyl Maleate	Catalogue Number:	CCHM703048
Synonyms:	N/A	Lot Number:	1206-RF-0037
CAS Number:	3052-50-4	Expiry Date:	Nov 04, 2027
Molecular Formula:	C ₅ H ₆ O ₄	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	130.10	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	89.542%
Water Content	Karl Fischer	1.4345%
Assay		88.3%
Uncertainty		±2.0%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content) * 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:

Prepared by:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Dec 06, 2024

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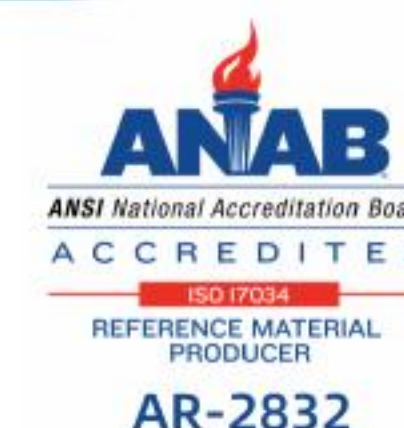
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