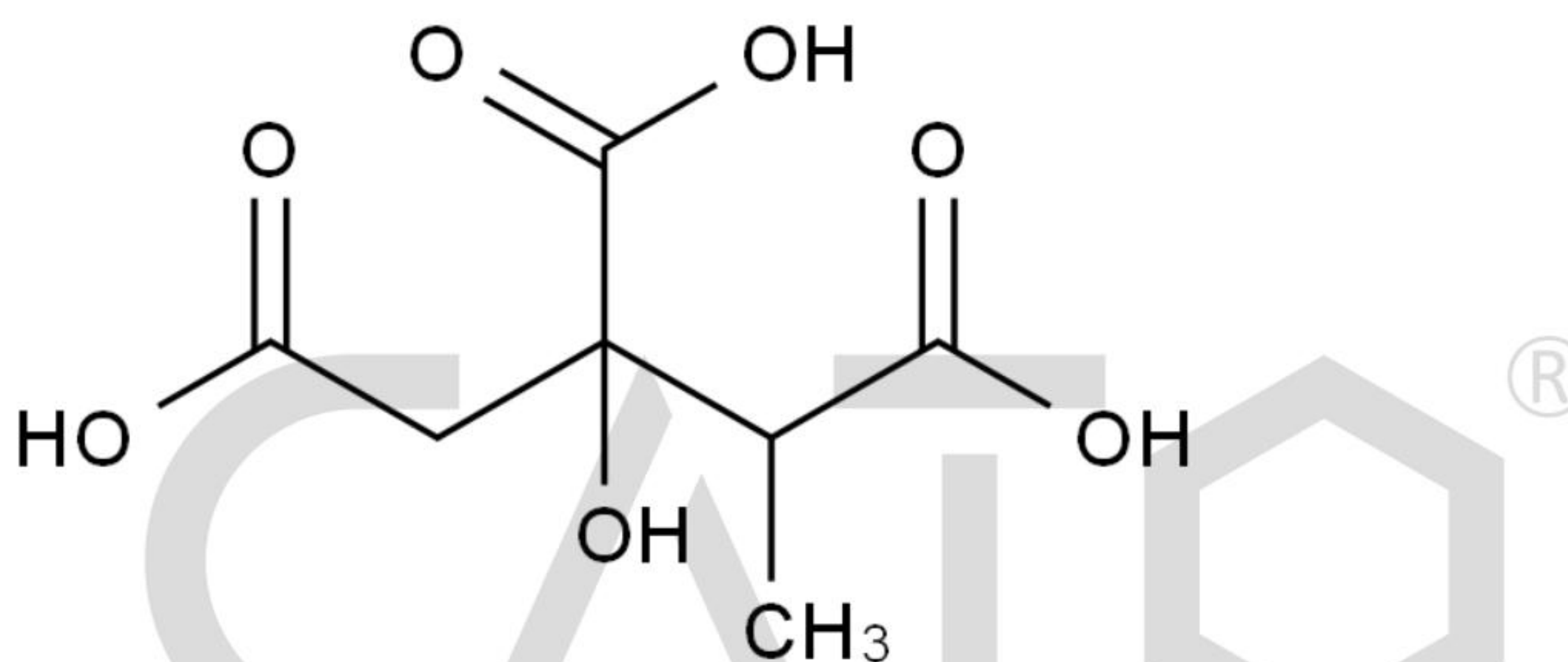


Certificate of Analysis

Reference Material & Standard

Product Name:	2-Methylcitric Acid	Catalogue Number:	CCHM702912
Synonyms:	N/A	Lot Number:	1224-RG-0100
CAS Number:	6061-96-7	Expiry Date:	Dec 25, 2029
Molecular Formula:	C ₇ H ₁₀ O ₇	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	206.15	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	99.74%
Loss On Drying	TGA	1.7303%
Assay		98.0%
Uncertainty		±0.3%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity ELSD (\%)} / 100\%$$

Loss On Drying is considered as absolute effect, ELSD 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: Dec 30, 2025

Date: Dec 30, 2025

Date: Dec 30, 2025

