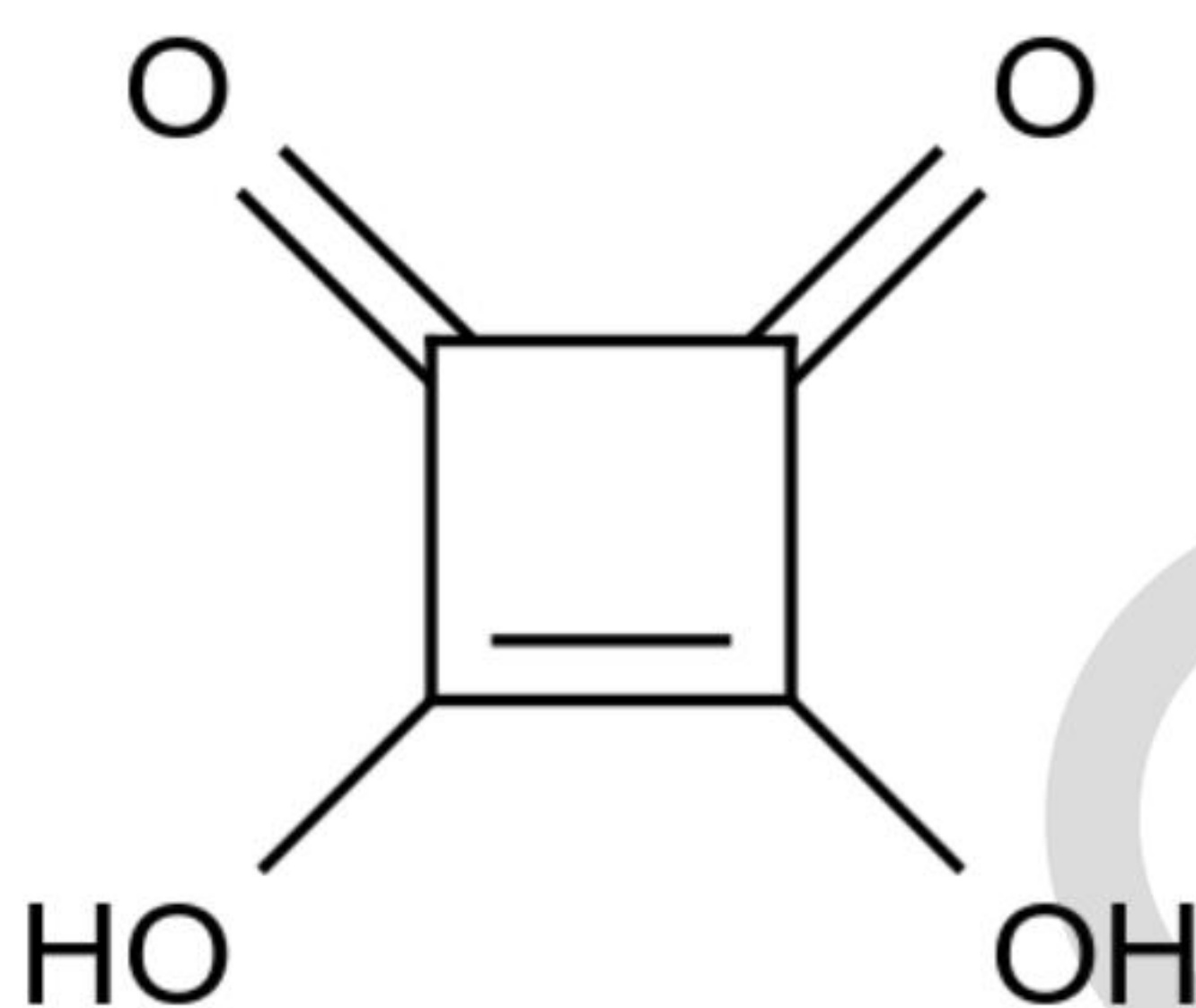


Certificate of Analysis

Reference Material & Standard

Product Name:	3,4-Dihydroxy-3-cyclobutene-1,2-dione	Catalogue Number:	CCHM705872
Synonyms:	N/A	Lot Number:	1026-RE-0033
CAS Number:	2892-51-5	Expiry Date:	Nov 06, 2027
Molecular Formula:	C4H2O4	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	114.06	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR	Confirmed
Purity	HPLC	100.000%
Loss On Drying	TGA	0.0118%
Assay		100.0%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

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

Loss On Drying is considered as absolute effect, HPLC 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:

Nice

Reviewed by:

Lisa

Aproved by General Manager:

David

Date: Nov 07, 2023

Date: Nov 07, 2023

Date: Nov 07, 2023

