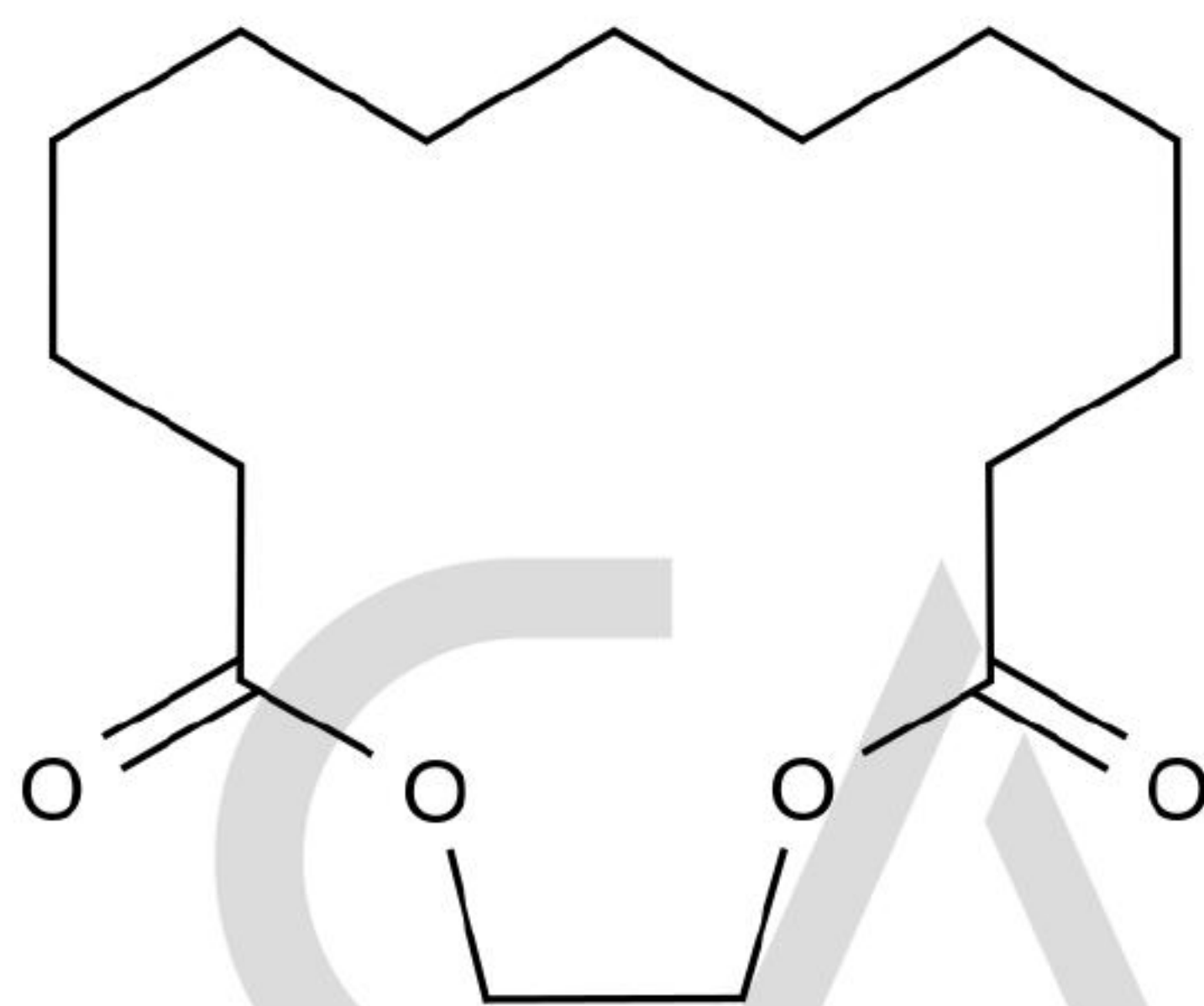


Certificate of Analysis

Reference Material & Standard

Product Name:	1,4-Dioxacycloheptadecane-5,17-dione	Catalogue Number:	C1038495
Synonyms:	N/A	Lot Number:	0517-RF-0064
CAS Number:	105-95-3	Expiry Date:	May 22, 2028
Molecular Formula:	C15H26O4	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	270.36	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Sticky Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	98.210%
Loss On Drying	TGA	0.2012%
Assay		98.0%
Uncertainty		±2.0%

Comment:

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

Assay (%) = (100% - Loss On Drying) * Purity GC (%) / 100%

Loss On Drying 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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: May 23, 2024

Date: May 23, 2024

Date: May 23, 2024

