

Certificate of Analysis

Reference Material & Standard

Product Name:	Hydroquinone	Catalogue Number:	CCEM500577
Synonyms:	N/A	Lot Number:	1012-RF-0011
CAS Number:	123-31-9	Expiry Date:	Oct 14, 2028
Molecular Formula:	C ₆ H ₆ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	110.11	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	GCMS&CNMR&HNMR	Confirmed
Purity	GC	100.000%
Loss On Drying	TGA	0.0023%
Assay		100.0%
Uncertainty		±2.0%

Comment:

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

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

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:

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Reviewed by:

Lisa

Approved by General Manager:

David

Date: Nov 21, 2024

Date: Nov 21, 2024

Date: Nov 21, 2024

