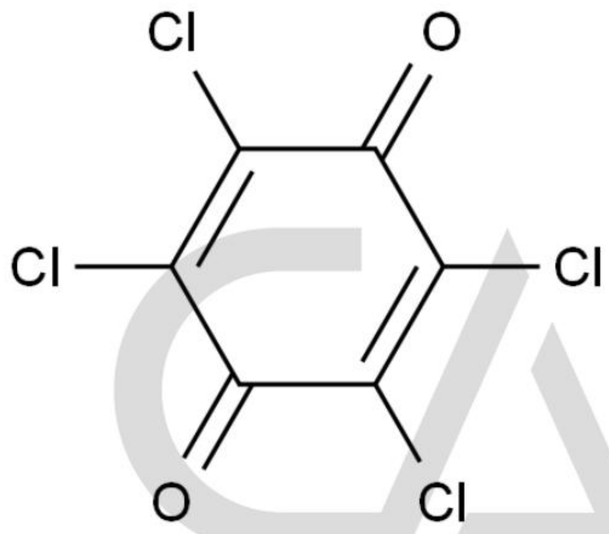
Certificate of Analysis

Reference Material & Standard

Product Name:	4-Chloranil	**Catalogue Number:**	CCEM500397
Synonyms:	N/A	**Lot Number:**	0907-RH-0150
CAS Number:	118-75-2	**Expiry Date:**	Sep 06, 2030
Molecular Formula:	$C_6Cl_4O_2$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	245.87	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&CNMR	Confirmed
Purity	GC	94.052%
Loss on Drying	TGA	0.0734%
Assay		94.0%
Uncertainty		±1.1%

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Comment:

1. The calculation of the mass balance 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: Lisa — Date: Sep 07, 2026

Reviewed by: Hinlam — Date: Sep 08, 2026

Approved by General Manager: David — Date: Sep 08, 2026

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