

Certificate of Analysis

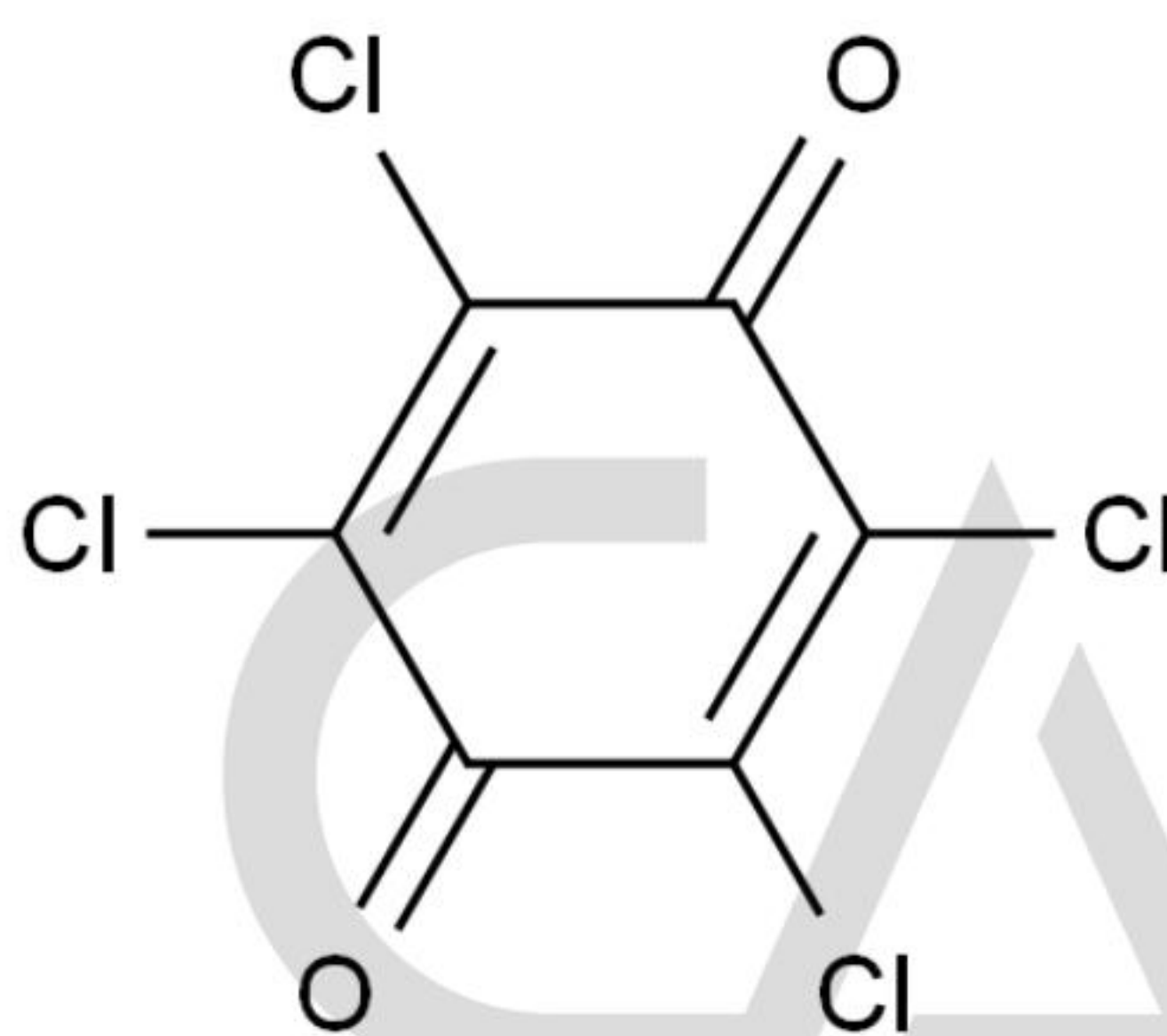
Reference Material & Standard

Product Name:	4-Chloranil	Catalogue Number:	CCEM500397
Synonyms:	N/A	Lot Number:	0615-RC-0013
CAS Number:	118-75-2	Expiry Date:	Jul 18, 2025
Molecular Formula:	C ₆ Cl ₄ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	245.87		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Powder
Identification	LCMS&CNMR	Confirmed
Purity	GC	100.000%
Loss on Drying	TGA	0.0566%
Assay		99.9%
Uncertainty		±2.0%

Comment:

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

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

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:

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Date: Jul 19, 2021

Date: Jul 20, 2021

Date: Jul 20, 2021



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