

Certificate of Analysis

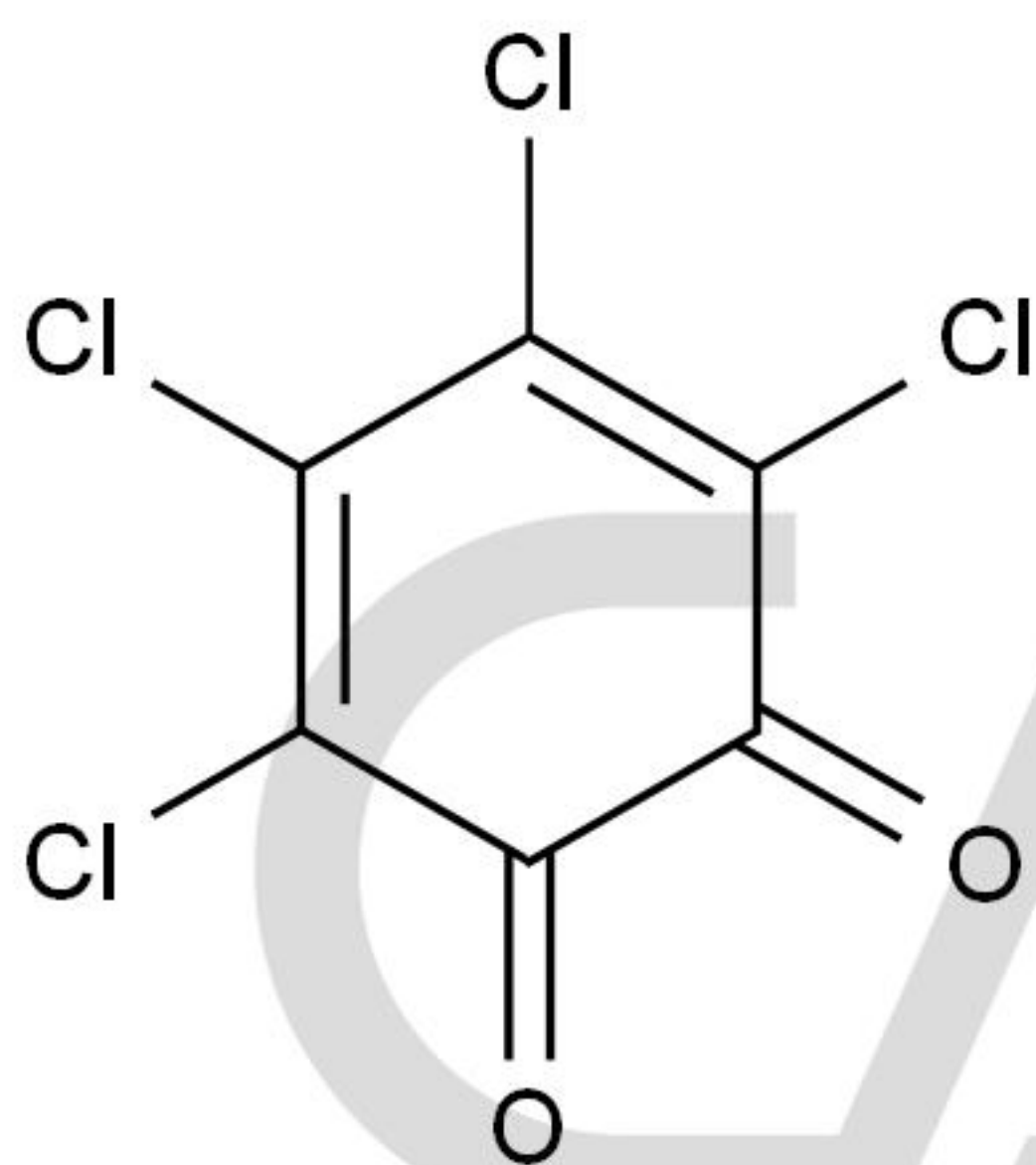
Reference Material & Standard

Product Name:	Tetrachloro-o-benzoquinone	Catalogue Number:	CCHM703315
Synonyms:	N/A	Lot Number:	0822-RD-0026
CAS Number:	2435-53-2	Expiry Date:	Sep 20, 2025
Molecular Formula:	C ₆ Cl ₄ O 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	Red Powder
Identification	LCMS&CNMR	Confirmed
Purity	HPLC	100.000%
Loss on Drying	TGA	0.0918%
Assay		99.9%
Uncertainty		±2.0%

Comment:

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

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

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:

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Date: Sep 21, 2022

Date: Sep 22, 2022

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