

Certificate of Analysis

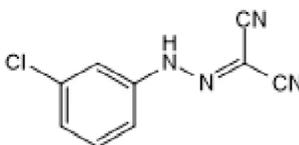
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Product Name: CCCP
CAS Number: 555-60-2
IUPAC Name: Carbonyl cyanide 3-chlorophenylhydrazone

Catalog No.: 0452 **Batch No.:** 4
EC Number: 209-103-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₅ClN₄
Batch Molecular Weight: 204.62
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.83	2.46	27.38
Found	52.89	2.43	27.68

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 555-60-2

EC Number: 209-103-7

IUPAC Name: Carbonyl cyanide 3-chlorophenylhydrazone

Description:

CCCP is a protonophore. It disrupts mitochondria membrane potential by transporting protons across the mitochondrial inner membrane, which interferes with the proton gradient and ATP synthesis. CCCP is widely used as an uncoupler of oxidative phosphorylation to induce mitochondrial depolarization.

Physical and Chemical Properties:

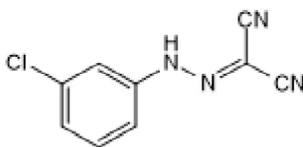
Batch Molecular Formula: C₉H₅ClN₄

Batch Molecular Weight: 204.62

Physical Appearance: Orange solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Heytler and Pritchard (1962) A new class of uncoupling agents - carbonyl cyanide phenylhydrazones. *Biochem.Biophys.Res.Commun.* 7 272. PMID: 13907155.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956