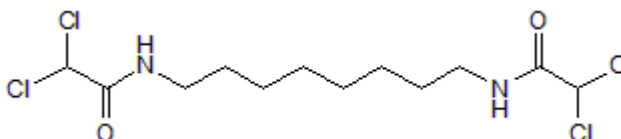


**Product Name:** WIN 18446  
**CAS Number:** 1477-57-2  
**IUPAC Name:** *N,N*-1,8-Octanediyldis(2,2-dichloroacetamide)

**Catalog No.:** 4736  
**Batch No.:** 1  
**EC Number:** 216-033-0

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:**  $C_{12}H_{20}Cl_4N_2O_2 \cdot \frac{1}{4}H_2O$   
**Batch Molecular Weight:** 370.61  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**Melting Point:** Between 128 - 129°C  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	38.89	5.56	7.56
Found	38.85	5.55	7.47

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

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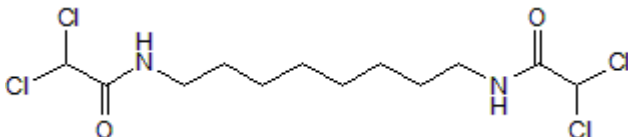
**Description:**

Inhibitor of aldehyde dehydrogenase 1a2 (ALDH1a2) ( $IC_{50} = 0.3 \mu\text{M}$ ). Inhibits the biosynthesis of retinoic acid from retinol in neonatal and adult murine testis.

**Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{12}H_{20}Cl_4N_2O_2 \cdot \frac{1}{4}H_2O$   
 Batch Molecular Weight: 370.61  
 Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
 ethanol to 20 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. Our standard recommendations are:

**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:**

**Amory et al** (2011) Suppression of spermatogenesis by bisdichloroacetyldiamines is mediated by inhibition of testicular retinoic acid biosynthesis. *J.Androl.* **32** 111. PMID: 20705791.

**Hogarth et al** (2011) Suppression of *Strat8* expression in the mouse gonad by WIN 18,446. *Biol.Reprod.* **84** 957. PMID: 21209416.

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