

## Certificate of Analysis

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**Product Name:** Isoflurane

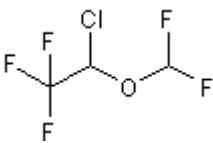
**Catalog No.:** 3273

**Batch No.:** 2

CAS Number: 26675-46-7

IUPAC Name: 2-Chloro-2-(difluoromethoxy)-1,1,1-trifluoroethane

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>3</sub> H <sub>2</sub> ClF <sub>5</sub> O
<b>Batch Molecular Weight:</b>	184.49
<b>Physical Appearance:</b>	Colourless liquid
<b>Solubility:</b>	DMSO to 100 mM
<b>Storage:</b>	Store at RT
<b>Batch Molecular Structure:</b>	

### 2. ANALYTICAL DATA

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

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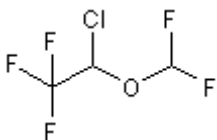
**Description:**

Anesthetic agent. Induces apoptosis and amyloid  $\beta$ -protein accumulation.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>3</sub>H<sub>2</sub>ClF<sub>5</sub>O

Batch Molecular Weight: 184.49

Physical Appearance: Colourless liquid

**Batch Molecular Structure:****Storage:** Store at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**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. 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:**

Xie *et al* (2007) The inhalation anesthetic Isoflurane induces a vicious cycle of apoptosis and amyloid  $\beta$ -protein accumulation. *J.Neuroscience* **27** 1247.

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