

**Product Name:** Pentoxifylline

CAS Number: 6493-05-6

IUPAC Name: 3,7-Dimethyl-1-(5-oxohexyl)xanthine

**Catalog No.:** 3056

**Batch No.:** 2

EC Number: 229-374-5

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>13</sub>H<sub>18</sub>N<sub>4</sub>O<sub>3</sub>

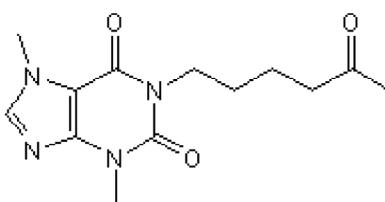
**Batch Molecular Weight:** 278.31

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.1	6.52	20.13
Found	56.44	6.58	20.01

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

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**2**

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IUPAC Name: 3,7-Dimethyl-1-(5-oxohexyl)xanthine

**Description:**

Phosphodiesterase inhibitor that blocks production of TNF- $\alpha$  and other cytokines. Displays antinociceptive activity.

**Physical and Chemical Properties:**

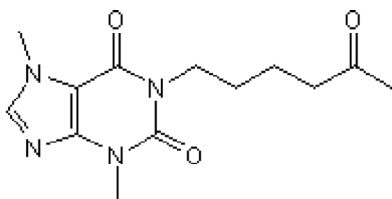
Batch Molecular Formula: C<sub>13</sub>H<sub>18</sub>N<sub>4</sub>O<sub>3</sub>

Batch Molecular Weight: 278.31

Physical Appearance: White solid

**Minimum Purity:**  $\geq$ 99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water 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:**

Vale *et al* (2004) Antihyperalgesic effect of pentoxify. on experimental inflammatory pain. Br.J.Pharmacol. **143** 833. PMID: 15520047.

Monshouwer *et al* (1996) Differential effect of pentoxify. on lipopolysaccharide-induced downregulation of cytochrome P450. Biochem.Pharmacol. **52** 1195. PMID: 8937426.

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