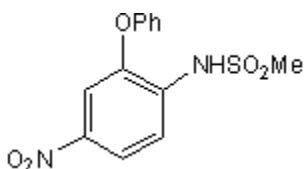


**Product Name:** Nimesulide  
**CAS Number:** 51803-78-2  
**IUPAC Name:** *N*-(4-Nitro-2-phenoxyphenyl)methanesulfonamide

**Catalog No.:** 2470 **Batch No.:** 1  
**EC Number:** 257-431-4

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>13</sub>H<sub>12</sub>N<sub>2</sub>O<sub>5</sub>S  
**Batch Molecular Weight:** 308.31  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 25 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows >99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	50.64	3.92	9.09
Found	50.62	3.88	8.99

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

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**Catalog No.:** 2470 **Batch No.:** 1

**CAS Number:** 51803-78-2

**EC Number:** 257-431-4

**IUPAC Name:** *N*-(4-Nitro-2-phenoxyphenyl)methanesulfonamide

**Description:**

Selective, orally active cyclooxygenase-2 (COX-2) inhibitor. Produces potent analgesic, anti-inflammatory and antipyretic activities in vivo. Reported to produce fewer gastrointestinal side effects than standard NSAIDs.

**Physical and Chemical Properties:**

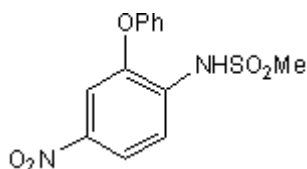
Batch Molecular Formula: C<sub>13</sub>H<sub>12</sub>N<sub>2</sub>O<sub>5</sub>S

Batch Molecular Weight: 308.31

Physical Appearance: Yellow solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 25 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:**

**Famaey** (1997) In vitro and in vivo pharmacological evidence of selective cyclooxygenase-2 inhibition by nimesulide: an overview. *Inflamm.Res.* **46** 437. PMID: 9427063.

**Cullen et al** (1998) Selective cyclooxygenase-2 inhibition by nimesulide in man. *J.Pharmacol.Exp.Ther.* **287** 578. PMID: 9808683.

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Tocris Bioscience is an R&D Systems company  
 USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
[www.RnDSystems.com](http://www.RnDSystems.com)

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