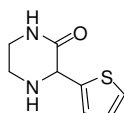




## Certificate of Analysis

**Axon Catalogue ID:** 1470 **Batch Number:** 1  
**Product Name:** Tenilsetam  
**Alternative Name(s):** PAS 997; CAS 997; HR 029  
**IUPAC Name:** 3-Thiophen-2-yl-piperazin-2-one

**Structure:**



**Amount:**

**CAS number(s):** 86696-86-8  
**Molecular Formula:** C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub> **Molecular Weight:** 182.24  
**Batch Molecular Formula:** C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub> **Batch Molecular Weight:** 182.24  
**Appearance:** White solid **Observed mp:** 122.1 °C  
**TLC (R<sub>f</sub>):** 0.45 DCM/MeOH (9:1)  
**Chemical Purity:** 99.1%  
**Optical Purity (ee):** N.A.  
**<sup>1</sup>H-NMR (300 MHz):** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 52.72, H 5.53, N 15.37; Found: C ND, H ND, N ND  
**Storage Conditions:** Store at +4 °C

<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>	<b>Remarks</b>
	Water			Not Tested
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)	18.2	>100 mM	
	DMSO	18.2	>100 mM	
	EtOH			Not Tested

**Remarks:**

**QC Date:** 16-08-2019

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**