1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{19}\text{H}_{21}\text{N}_{3}\text{O} \)

Batch Molecular Weight: 307.39

Physical Appearance: White solid

Solubility: ethanol to 100 mM

DMSO to 50 mM

Storage: Store at RT

Batch Molecular Structure:

```
\[
\begin{array}{c}
\text{Me} & \text{N} & \text{Me} \\
\text{Me} & \text{Me}_{2}\text{N} & \text{O}
\end{array}
\]
```

2. ANALYTICAL DATA

HPLC: Shows 99% purity

\(^1\text{H NMR:}\) Consistent with structure

Mass Spectrum: Consistent with structure
**Product Name:** Zolpidem  
**Catalog No.:** 0655  
**Batch No.:** 8

**CAS Number:** 82626-48-0  
**IUPAC Name:** N,N,6-Trimethyl-2-(4-methylphenyl)imidazo[1,2-a]pyridine-3-acetamide

**Description:** Benzodiazepine agonist with high selectivity for α1-subunit-containing GABA<sub>α</sub> receptors (BZ/ω<sub>1</sub> site) and very high intrinsic activity. K<sub>i</sub> values are 20, 400 and ≥ 5000 nM for α<sub>1</sub>-, α<sub>2</sub>-/α<sub>3</sub>-, and α<sub>5</sub>-containing GABA<sub>α</sub> receptors respectively. Hypnotic that does not induce physical dependence.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C<sub>19</sub>H<sub>21</sub>N<sub>5</sub>O<br>- **Batch Molecular Weight:** 307.39<br>- **Physical Appearance:** White solid
- **Minimum Purity:** ≥99%

**Storage:** Store at RT

**Solubility & Usage Info:**
- ethanol to 100 mM
- DMSO to 50 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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE UK ONLY**
This product is a Schedule 4.1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**References:**