1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( \text{C}_{17}\text{H}_{19}\text{N}_{5} \)
- **Batch Molecular Weight:** 293.37
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM, ethanol to 100 mM
- **Storage:** Store at RT
- **Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

- **HPLC:** Shows 99.9% purity
- **\(^1\text{H} \text{NMR}:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  - Carbon Hydrogen Nitrogen
  - Theoretical: 69.6 6.52 23.87
  - Found: 69.41 6.55 23.72
Product Name: Anastrozole  
Catalog No.: 3388  
Batch No.: 1

CAS Number: 120511-73-1  
IUPAC Name: α1,α1,α3,α3-Tetramethyl-5-(1H-1,2,4-triazol-1-ylmethyl)-1,3-benzenediacetonitrile

Description:  
Potent and highly selective aromatase (CYP19) inhibitor (IC₅₀ = 15 nM) that has no discernible effect on adrenocorticoid hormone synthesis. Reduces plasma estrogen levels and exhibits antitumor activity in vivo. Orally active.

Physical and Chemical Properties:  
Batch Molecular Formula: C₁₇H₁₈N₅  
Batch Molecular Weight: 293.37  
Physical Appearance: White solid

Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:  
DMSO to 100 mM  
ethanol 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.

Licensing Information:  
Sold for research purposes only under agreement from AstraZeneca

References:  