Product Name: Thalidomide
CAS Number: 50-35-1
IUPAC Name: N-(2,6-dioxo-3-piperidinyl)phthalimide

1. PHYSICAL AND CHEMICAL PROPERTIES
   - Batch Molecular Formula: $C_{13}H_{10}N_2O_4$
   - Batch Molecular Weight: 258.23
   - Physical Appearance: White solid
   - Solubility: DMSO to 25 mM
   - Storage: Store at RT
   - Batch Molecular Structure:

2. ANALYTICAL DATA
   - HPLC: Shows >99.9% purity
   - $^1$H NMR: Consistent with structure
   - Mass Spectrum: Consistent with structure
   - Microanalysis:
     |     | Theoretical | Found |
     |-----|-------------|-------|
     | Carbon | 60.47 | 60.6 |
     | Hydrogen | 3.9 | 3.86 |
     | Nitrogen | 10.84 | 10.8 |
**Product Name:** Thalidomide  
**Catalog No.:** 0652  
**Batch No.:** 11  
**EC Number:** 200-031-1

**Product Information**

**Description:**
Teratogen, sedative-hypnotic with inherent anti-inflammatory properties. A selective inhibitor of tumor necrosis factor α (TNF-α) synthesis.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₁₁H₁₀N₂O₄
- **Batch Molecular Weight:** 258.23
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%

**Storage:** Store at RT

**Solubility & Usage Info:**
DMSO 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:**
- Merck Index 12 9390.