1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( \text{C}_{18}\text{H}_{22}\text{N}_{2}\text{O} \)
- **Batch Molecular Weight:** 282.38
- **Physical Appearance:** Green crystalline solid
- **Solubility:** DMSO to 75 mM
- **Storage:** Store at RT
- **Batch Molecular Structure:**

![Molecular Structure Image]

2. ANALYTICAL DATA

- **TLC:** \( R_f = 0.4 \) (Ethyl acetate:Petroleum ether [1:10])
- **Melting Point:** Between 137 - 141°C
- **\(^1\text{H NMR}:** Consistent with structure
Product Name: Malonoben

CAS Number: 10537-47-0
IUPAC Name: 3,5-Di-tert-butyl-4-hydroxybenzylidenemalononitrile

Description:
Potent uncoupler of oxidative phosphorylation.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₉H₂₂N₂O
Batch Molecular Weight: 282.38
Physical Appearance: Green crystalline solid

Storage: Store at RT

Solubility & Usage Info:
DMSO to 75 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:
