Product Name: BHQ
CAS Number: 88-58-4
IUPAC Name: 1,4-Dihydroxy-2,5-di-tert-butylbenzene

1. PHYSICAL AND CHEMICAL PROPERTIES
   - Batch Molecular Formula: \( \text{C}_{14}\text{H}_{22}\text{O}_{2} \)
   - Batch Molecular Weight: 222.33
   - Physical Appearance: Off-white solid
   - Solubility: DMSO to 100 mM
   - Storage: Store at RT

2. ANALYTICAL DATA
   - TLC: \( R_f = 0.8 \) (Dichloromethane:Methanol:Ammonia soln. [10:1:0.1])
   - Melting Point: Between 223 - 229°C
   - \(^1\text{H NMR:} \) Consistent with structure
   - Microanalysis:
     
     | Element   | Theoretical | Found  |
     |-----------|-------------|--------|
     | Carbon    | 75.63       | 75.51  |
     | Hydrogen  | 9.97        | 10.07  |
     | Nitrogen  | 0           | 0      |
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Description:
A selective inhibitor of endoplasmic reticulum Ca\(^{2+}\)-ATPase.

Physical and Chemical Properties:
Batch Molecular Formula: C\(_{14}\)H\(_{22}\)O\(_2\)
Batch Molecular Weight: 222.33
Physical Appearance: Off-white solid

Storage: Store at RT

Solubility & Usage Info:
DMSO 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.

References: