Product Name: Plumbagin
CAS Number: 481-42-5
IUPAC Name: 5-Hydroxy-2-methyl-1,4-naphthalenedione

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{11}\text{H}_8\text{O}_3 \)
   Batch Molecular Weight: 188.18
   Physical Appearance: Orange solid
   Solubility: DMSO to 100 mM, ethanol to 50 mM
   Storage: Store at -20°C

2. ANALYTICAL DATA

   HPLC: Shows 100% purity
   \(^1\)H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis: Carbon Hydrogen Nitrogen
                  Theoretical 70.21 4.28
                  Found 69.91 4.22
Product Information

Product Name: Plumbagin
CAS Number: 481-42-5
IUPAC Name: 5-Hydroxy-2-methyl-1,4-naphthalenedione
Catalog No.: 4761
EC Number: 207-569-6
Batch No.: 1

Description:

Physical and Chemical Properties:
Batch Molecular Formula: C11H6O3
Batch Molecular Weight: 188.18
Physical Appearance: Orange solid
Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol 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.

References: