### 1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula:</td>
<td>$C_{24}H_{23}NO$</td>
</tr>
<tr>
<td>Batch Molecular Weight:</td>
<td>341.45</td>
</tr>
<tr>
<td>Physical Appearance:</td>
<td>Yellow oil</td>
</tr>
<tr>
<td>Solubility:</td>
<td>DMSO to 100 mM, ethanol to 100 mM</td>
</tr>
<tr>
<td>Storage:</td>
<td>Desiccate at -20°C</td>
</tr>
<tr>
<td>Batch Molecular Structure:</td>
<td></td>
</tr>
</tbody>
</table>

![Molecular Structure Diagram](image)

### 2. ANALYTICAL DATA

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLC:</td>
<td>$R_f = 0.4$ (Ethyl acetate:Petroleum ether [4:1])</td>
</tr>
<tr>
<td>HPLC:</td>
<td>Shows &gt;99.4% purity</td>
</tr>
<tr>
<td>$^1$H NMR:</td>
<td>Consistent with structure</td>
</tr>
<tr>
<td>Mass Spectrum:</td>
<td>Consistent with structure</td>
</tr>
</tbody>
</table>
Product Name: JWH 018
Catalog No.: 1342  Batch No.: 1
CAS Number: 209414-07-3
IUPAC Name: (1-Pentyl-1H-indol-3-yl)-1-naphthalenylmethanone

Description:
Potent cannabinoid receptor agonist with mild selectivity for CB₂ (Kᵣ values are 2.94 and 9.0 nM for CB₂ and CB₁ receptors respectively).

Physical and Chemical Properties:
Batch Molecular Formula: C₂₄H₂₃NO
Batch Molecular Weight: 341.45
Physical Appearance: Yellow oil
Minimum Purity: >99%

Storage: Desiccate at -20°C

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.

Other Information:
INFORMATION FOR CUSTOMERS IN THE UK ONLY
This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

INFORMATION FOR CUSTOMERS IN THE USA ONLY
This product is a Schedule I DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

INFORMATION FOR CUSTOMERS IN CANADA ONLY
This product is a Schedule II CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References:

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use