Specifcation

01.11.2013

Code No. 18131

Cumarin 311

CAS No. 87-01-4

EEC No. 201-717-3

Chemical Name 7-(Dimethylamino)-4-methyl-coumarin

Structure

\[
\begin{align*}
\text{H}_3\text{C} & \text{N} \\
\text{CH}_3 & \text{O} \\
\text{H}_3\text{C} & \text{O}
\end{align*}
\]

Molecular Formula \( \text{C}_{12}\text{H}_{13}\text{NO}_2 \)

Molecular Weight 203.24

Product Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Off white crystalline powder</td>
</tr>
<tr>
<td>Assay (Area%)</td>
<td>( \geq 99.0 ) (HPLC at 370 nm)</td>
</tr>
<tr>
<td>Extinction coefficient (l·mol(^{-1})·cm(^{-1}))</td>
<td>19000 – 23000 (in MeOH/ACN at ( \lambda_{\text{max}} ))</td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td>143 - 146 (DSC)</td>
</tr>
<tr>
<td>Loss on drying (%)</td>
<td>( \leq 0.5 )</td>
</tr>
</tbody>
</table>

Storage  Cool, dry, dark, tightly closed

Application  Intermediate in organic synthesis

Changes in comparison to previous issue do not relate to contents.