

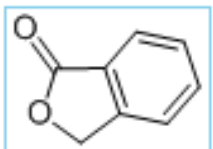


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CERTIFICATE OF ANALYSIS

| Product Name: | Phthalide |  Structure: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|------------|------|---------------|------------------|------------|------------|------------------------|--------------|---------|------|---------------------------|---------------------------|---------|------------|--------|--------|---------|--------------|--------|--------|---------|------|-----------|---------------|---------|---------------------|-------|-------|---------|----------|-------|-------|---------|
| Batch No: | 20150831 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAS No: | 87-41-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manu. Date: | Aug. 31, 2015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Report Date: | Sep. 01, 2015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Item</th> <th>Specification</th> <th>Analysis Results</th> <th>Conclusion</th> </tr> </thead> <tbody> <tr> <td>Appearance</td> <td>White to yellow flakes</td> <td>White flakes</td> <td>conform</td> </tr> <tr> <td>HNMR</td> <td>Comply with the structure</td> <td>Comply with the structure</td> <td>conform</td> </tr> <tr> <td>Purity(GC)</td> <td>≥99.0%</td> <td>99.97%</td> <td>conform</td> </tr> <tr> <td>Purity(HPLC)</td> <td>≥99.0%</td> <td>99.97%</td> <td>conform</td> </tr> <tr> <td>M.P.</td> <td>70°C-74°C</td> <td>71.6°C-73.0°C</td> <td>conform</td> </tr> <tr> <td>Residue on ignition</td> <td>≤0.5%</td> <td>0.39%</td> <td>conform</td> </tr> <tr> <td>Moisture</td> <td>≤0.5%</td> <td>0.08%</td> <td>conform</td> </tr> </tbody> </table> | | | | Item | Specification | Analysis Results | Conclusion | Appearance | White to yellow flakes | White flakes | conform | HNMR | Comply with the structure | Comply with the structure | conform | Purity(GC) | ≥99.0% | 99.97% | conform | Purity(HPLC) | ≥99.0% | 99.97% | conform | M.P. | 70°C-74°C | 71.6°C-73.0°C | conform | Residue on ignition | ≤0.5% | 0.39% | conform | Moisture | ≤0.5% | 0.08% | conform |
| Item | Specification | Analysis Results | Conclusion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Appearance | White to yellow flakes | White flakes | conform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HNMR | Comply with the structure | Comply with the structure | conform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Purity(GC) | ≥99.0% | 99.97% | conform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Purity(HPLC) | ≥99.0% | 99.97% | conform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.P. | 70°C-74°C | 71.6°C-73.0°C | conform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Residue on ignition | ≤0.5% | 0.39% | conform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moisture | ≤0.5% | 0.08% | conform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage & Conclusion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Packing | Pack in paper-drums and two plastic-bags inside. 25.00 kg/Drum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Store in a well-closed place with room temperature and no direct sun light. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conclusion | Qualified with the specification. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |