**CERTIFICATE OF ANALYSIS**

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| Product Name: 1,4-二溴萘 1,4-Dibromonaphthalene CAS No.: 83-53-4 MF：C10H6Br2 Manufacture Date: 2020-08-31 Batch No.: VANZ-200801Report Date: 2020-08-31 Quantity: 220kgExpiry Date: 2022-08-30 Standard: In-house Standard |

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| **Items**  | **Specifications** | **Results** |

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| Appearance | Off-white powder to crystal | Conforms |
| Identification ( HPLC ) | Retention time of principle peak in the chromatogram obtained with the sample solution should match with that of the principal peak in chromatogram obtained with standard solution in the test for “Assay by HPLC.” | Conforms |
| Assay（HPLC） | ≥98.0% | 99.14% |
| Solubility | Soluble in Chloroform-d | Conforms |
| Loss on drying  | 003≤0.5% | 0.22% |
| Conclusion | Meet in-house specifications. |

Tested by: Wang Xiaohang Checked by: Chen Tao Issued by: Lei Xiaogang