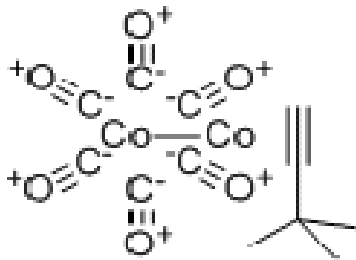


### Certification of Analysis

|                       |                                              |                                                                                    |
|-----------------------|----------------------------------------------|------------------------------------------------------------------------------------|
| <b>Product Name</b>   | (3,3-Dimethyl-1-butyne)dicobalt hexacarbonyl |                                                                                    |
| <b>CAS No.</b>        | 56792-69-9                                   |  |
| <b>Batch No.</b>      | 101013003031522001                           |                                                                                    |
| <b>Date of MFG</b>    | 2022.3.15                                    |                                                                                    |
| <b>Date of Test</b>   | 2022.3.16                                    |                                                                                    |
| <b>Date of Expiry</b> | 2022.9.15                                    |                                                                                    |

| No.                                                                      | Test Item                               | Specification         | Result                |
|--------------------------------------------------------------------------|-----------------------------------------|-----------------------|-----------------------|
| 1                                                                        | Appearance(Color)                       | dark red              | dark red              |
| 2                                                                        | Appearance(Form)                        | liquid                | liquid                |
| 3                                                                        | Purity (1H-NMR)                         | 99%min                | 99%+                  |
| 4                                                                        | 1H-NMR                                  | confirms to structure | confirms to structure |
| 5                                                                        | Purity (Based On Trace Metals Analysis) | 99.99% min            | 99.9999%              |
| <b>Conclusion: Conform to the standard of electronic grade chemicals</b> |                                         |                       |                       |
| Analyzer : Hua Wu                                                        |                                         |                       |                       |
| Approved: Yuelai Zhang                                                   |                                         |                       |                       |
| Report Date:2022.3.16                                                    |                                         |                       |                       |