



## CERTIFICATE OF ANALYSIS (COA)

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### Product Information

| Parameter     | Specification                          |
|---------------|----------------------------------------|
| Product Name  | Beta Caryophyllene Natural             |
| Chemical Name | $\beta$ -Caryophyllene                 |
| INCI Name     | Beta-Caryophyllene                     |
| CAS Number    | 87-44-5                                |
| EC Number     | 201-746-1                              |
| Product Type  | Natural Isolate / Aroma Chemical       |
| Source        | Natural Essential Oil Fraction         |
| Grade         | Perfumery Grade                        |
| Odour Profile | Spicy, woody, clove-like, peppery, dry |

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### ANALYTICAL SPECIFICATION

| Test                     | Specification                             | Result   |
|--------------------------|-------------------------------------------|----------|
| Appearance               | Clear mobile liquid                       | Conforms |
| Colour                   | Colourless to Pale Yellow                 | Conforms |
| Odour                    | Spicy, woody, dry, clove-like, peppery    | Conforms |
| Purity by GC             | $\geq 90.0\%$                             | Conforms |
| Relative Density (20 °C) | 0.895–0.920                               | Conforms |
| Refractive Index (20 °C) | 1.495–1.510                               | Conforms |
| Flash Point              | $>90^{\circ}\text{C}$                     | Conforms |
| Solubility               | Soluble in ethanol and perfumery solvents | Conforms |

### Typical Composition

| Constituent                | Status            |
|----------------------------|-------------------|
| $\beta$ -Caryophyllene     | Major Constituent |
| $\alpha$ -Humulene         | May be Present    |
| Caryophyllene Oxide        | May be Present    |
| Sesquiterpene Hydrocarbons | May be Present    |

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### Storage

Store tightly closed in a cool, dry place away from direct sunlight, heat, air and oxidising agents.



### Shelf Life

24–36 months from the date of manufacture when stored under recommended conditions.

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### Conclusion

This material conforms to the above specification.

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Prepared By:

Fozia Khot  
Director