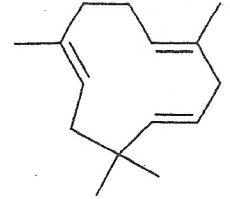




INDOFINE Chemical Company, Inc.

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Certificate Of Analysis

025424S **α-HUMULENE** **Lot No.: 19071619**

IDENTIFICATION

| | |
|-------------------|---------------------------------|
| CAS Number | [6753-98-6] |
| Molecular formula | C ₁₅ H ₂₄ |
| Molecular weight | 204.36 |

ANALYSIS

| TEST | SPECIFICATION (June 2016, version 10) | RESULT |
|------------|---------------------------------------|---------|
| Appearance | Liquid | Conform |
| Moisture | | < 0.2 % |
| Assay (GC) | ≥95% | Conform |

GC

| | |
|----------------|--|
| Column | DB5 capillary 30m x 0.32 mm x 0.25 μm |
| Temperature | Column 70 to 220°C (5°C/min) Injector 200°C, Detector 230°C |
| Detector | FID |
| Carrier gas | Helium 1 ml/min |
| Sample solvent | Isopropanol |

| Nom du pic | Tr. | Aire | % Aire |
|----------------|-------|---------------|---------------|
| | 16.07 | 0.57 | 0.16 |
| | 16.66 | 0.35 | 0.10 |
| | 16.78 | 3.57 | 0.99 |
| alpha humulene | 16.94 | 344.26 | 95.77 |
| | 17.07 | 2.93 | 0.82 |
| | 17.18 | 1.25 | 0.35 |
| | 17.31 | 2.65 | 0.74 |
| | 18.44 | 0.77 | 0.21 |
| | 20.20 | 0.20 | 0.06 |
| | 20.44 | 2.47 | 0.69 |
| | 20.90 | 0.43 | 0.12 |
| | | 359.45 | 100.00 |

The values given on the 'Certificate of Analysis' are the results determined at the time of analysis

Storage
Transport conditions

Store at <+8°C in a dry and dark place
Ambient temperature