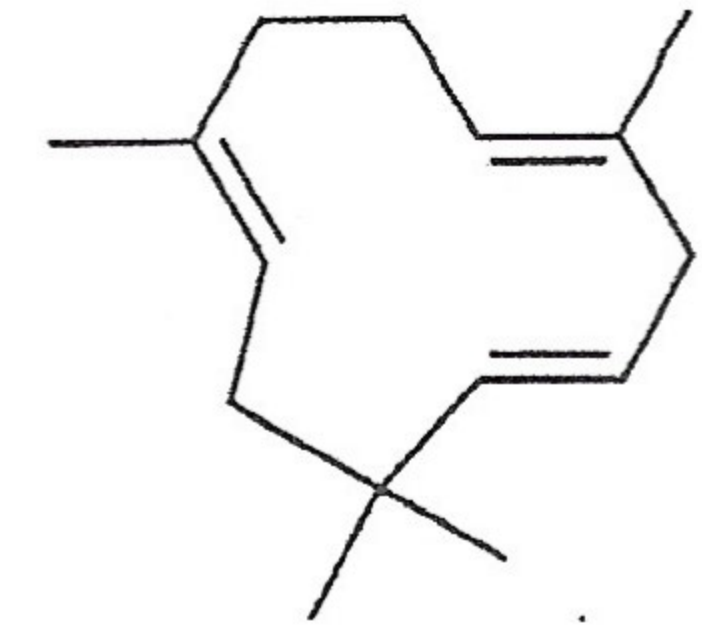




INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30
Hillsborough, NJ 08844 USA
Phone: (908) 359-6778; Fax: (908) 359-1179



Certificate Of Analysis

025424S **alpha-HUMULENE** **Lot No.: 21042020**

IDENTIFICATION

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

ANALYSIS

TEST	SPECIFICATION (April 2021, version 11.1)	RESULT
Appearance	Liquid	Conform
Moisture	—	< 0.2 %
Assay (GC)	≥ 93%	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
	11.31		
	17.47	0.14	0.04
	17.95	0.86	0.25
	18.05	0.27	0.08
	18.17	0.14	0.04
	18.17	4.05	1.17
alpha humulene	18.34	325.57	94.43
	18.48	2.88	0.84
	18.59	1.26	0.37
	18.70	0.76	0.22
	18.75	0.46	0.13
	18.86	0.29	0.08
	18.95	0.17	0.05
	19.05	0.11	0.03
	19.83	0.79	0.23
	20.78	0.12	0.03
	21.62	0.46	0.13
	21.87	5.70	1.65
	22.32	0.74	0.21
		344.77	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