

CARYOPHYLLENE

WOODY, SPICY, EARTHY, DRY

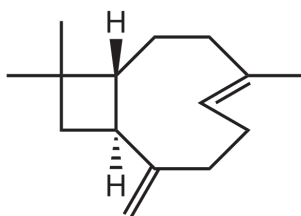
BIOBASED 100%

APPLICATION INFORMATION

Used in spice blends and citrus flavors, especially in chewing gum. Also used in soaps and detergents.

CHEMICAL STRUCTURE

(1R,9S,E)-4,11,11-Trimethyl-8-methylenebicyclo[7.2.0]undec-4-ene



Chemical formula - C₁₅H₂₄

SYNONYM

beta-Caryophyllene

TENACITY ON BLOTTER

00

HOURS

> 03

DAYS

00

WEEKS

BLOOM DIFFUSIVITY



POOR



FAIR



GOOD



VERY

TYPICAL USE LEVEL



0% 1% 2% 3% 4% 5% 10% 15% 20% 30%

ODOR TYPE - WOODY

OCCURENCE IN NATURE

Found in oils of clove, cinnamon leaves, Copaiba balsam and in minor quantities in lavender and other oils.

TYPICAL PHYSICAL PROPERTIES

- Flash Point °C	116 °C
- [α] _D ²⁰ minimum	-
- GC	92% min. as Caryophyllene beta and 8% max other sesquiterpenes
- Appearance	Colorless to pale yellow liquid
- CAS No.	87-44-5
- M.W.	204.36
- FEMA / GRAS No.	2252
- Food Grade Cert.	YES
- CLogP	6.30
- Vapor Pressure	4.160 Pa at 25°C

PROPERTIES

	STABILITY	POOR	FAIR	GOOD
- Hypochlorite bleach		●		
- Perborate Powder Detergent		●		
- Liquid Detergent			●	
- Concentrated Fabric Softeners			●	
- Soaps			●	
- Alcoholic fine fragrances				●
- Toiletry Applications			●	
- Antiperspirants			●	

	SUBSTANTIVITY	POOR	FAIR	GOOD
- Skin		●		
- Dry Fabric		●		
- Wet Fabric		●		
- Hair		●		