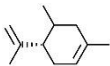

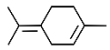
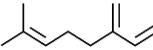
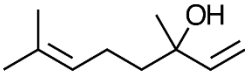


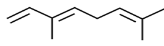
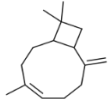
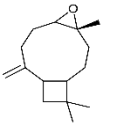
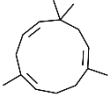
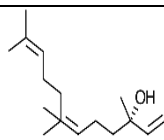


Common Cannabis Terpenes

Terpene	Class	BP °C	% Oil	Structure	Pharmacology	Actions + Effects	Other Sources
Limonene	Monoterpene	176	0.2-16%		Highly bioavailable. Metabolized to perrilyl alcohol and perrilic acid	Anticancer, Antimicrobial Antidepressant, Anxiolytic , Antioxidant	Citrus fruits: lemons, oranges, grapefruits
Alpha-Pinene Beta-Pinene	Monoterpene	165	1-31%		Highly bioavailable with pulmonary uptake. Inhibits PGE-1 synthesis. Acetylcholinesterase inhibitor.	Anti-inflammatory, Antimicrobial, Bronchodilator, Neuroprotective	Conifers: pine, hemlock
Terpinolene	Monoterpene	177	0.1-23%			Antiproliferative, Sedative, Antioxidant, Antispasmodic	Conifers: pine, cypress, Tea tree
Beta-Myrcene	Monoterpene	167	8.2-67%		Most abundant terpene in cannabis. Inhibits PGE-2 synthesis. Analgesic effects as a result of potential activity at alpha-2 adrenoreceptors.	Anti-inflammatory, Analgesic Sedative	Hops, Lemongrass
Delta-Linalool	Monoterpene	198	0.1-2.8%			Antidepressant, Analgesic Anticonvulsant, Anxiolytic	Lavender, Holy Basil, Cilantro



Common Cannabis Terpenes

Cis-Ocimene	Monoterpene	175	0.04-10%			Insecticidal	Tarragon, Basil, Marjoram
Beta-Caryophyllene	Sesquiterpene	268	1.3-28.2%		Most abundant sesquiterpene in cannabis. Agonist activity at CB2 receptors.	Displays CBR2 agonist downstream effects: Neuroprotective, Anti-inflammatory, Anticancer.	Cardamom, Black pepper, Oregano (oil)
Caryophyllene oxide	Sesquiterpene	279	0.3-11.3%		K-9 Detection compound. Does not bind to CBR2.	Anticancer (multiple mechanisms)	Lemon balm, Eucalyptus, Artemisia
Alpha-Humulene	Sesquiterpene	168	0.28-12.6%		Isomer of beta-caryophyllene (aka alpha-caryophyllene). Does not bind to CBR2	Anti-inflammatory	Hops
Nerolidol	Sesquiterpene	275	0.09-1.72%		Enhances transdermal absorption	Sedative, Antinociceptive, Antifungal, Antileishmanial	Neroli, Jasmine, Ginger