Khush ingredients

DOUGLAS FIR OIL
Pseudotsuga menziesii.
TECHNICAL DATA SHEET

DESCRIPTION:

Douglas Fir is an evergreen conifer species belonging to the Larch family, with a botanical name of *Pseudotsuga menziesii* . Our Douglas-fir essential oil is obtained through the steam distillation of *Pseudotsuga menziesii* grown and harvested in New Zealand, where our exclusive supply partner annually declares compliance to Khush Ingredients' Sustainability and Ethical policy.

The optimal harvest period is highlighted in green below.

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

CHEMISTRY:

Appearance: Mobile liquid
Odour: Citrus, pine, woodsy, sweet
Colour: Colourless to pale yellow
Specific Gravity @ 20°C: : 0.847 – 0.887
Refractive Index @ 20°C: 1.470 to 1.480
Optical Rotation @ 20°C: -36° to -4°
Flash Point: 46°C

STANDARDS / TESTS:

ISO 16128 standard	✓
Pesticide test*	✓
Heavy metals test*	✓

*available upon request

COMPONENT PROFILE:

Component	Typical (by GC)
Alpha Pinene	8 to 18%
Beta Pinene	17 to 40%
Sabinene	5 to 16%
Terpinolene	9 to 17%
Delta-3-carene	2 to 13%
Limonene	tr to 5%
Terpinen-4-ol	tr to 7%
Gamma Terpinene	tr to 5%
Alpha-Terpinene	tr to 5%
Citronellyl acetate	tr to 3%
Alpha-Thujene	tr to 2%
Beta Myrcene	tr to 2%
para-Cymene	tr to 1.5%

FURTHER DOCUMENTS:

For more information on Himalayan Cedarwood oil, please refer to:

Safety Data Sheet - For hazards, emergencies, toxicology, transport, product handling information.

Ingredient Statement - for IFRA allergen statement, INCI name and product declarations.

Certificates of Analysis - with batch-specific physical, organoleptic and GC analysis.

CODES:

CAS Number: 97926-19-7 / 91771-64-1
EC Number: 308-234-8 / 294-957-3
HS Tariff Code: 3301294900