



CANADIAN NATURALS

Eastern Hemlock Oil

Tsuga canadensis - Canada



DESCRIPTION

Eastern Hemlock essential oil is sourced from the Canadian Boreal forest. It is obtained from the needles and twigs of the *Tsuga canadensis* tree through steam distillation. It is a colorless to pale yellow liquid with a unique aroma.

OLFACTIVE PROFILE

A very unique, rich and warm coniferous scent, with spicy and fruity facets.



Woody



Aromatic

FLAVOR PROFILE

Fresh and medicinal.



DETAILS

Botany:

Tsuga canadensis, commonly known as Eastern Hemlock, is an evergreen tree native to the forests of North Eastern America, a member of the Pinaceae family and botanically classified as a conifer.

Eastern Hemlock grows well in the shade, is moderately slow-growing and long-lived. The imposing tree generally reaches over 31 meters in height. In shape, the crown is conical.

Ethnobotany:

Tsuga canadensis has long been considered to be a powerful medicinal plant in Iroquois and other American indigenous cultures, in which all parts of the tree were used for many different purposes. Eastern Hemlock needles and twigs were used in infusions, decoctions and poultices to treat colds, coughs, rheumatism and skin infections. Most notably, hot infusions containing Eastern Hemlock twigs were used as a steam treatment for muscle swelling and stiff joints.

Uses:

The essential oil obtained by steam distillation contains *l*-Bornyl acetate, which is one of the major components that gives the conifer its unique and powerful aroma.

In a circular economy approach, Cedarome uses the twigs and needles left behind as byproducts of the lumber industry as the primary source for the production of Eastern Hemlock essential oil. Applications include fine fragrance, cosmetics, flavour/food and aromatherapy.

TECHNICAL SHEET

Botanical name: *Tsuga canadensis* (L.) Carr.

Botanical family: Pinaceae

Accepted synonyms: *Pinus canadensis*

Common names: Canadian Hemlock, Eastern Hemlock, Eastern Hemlock-Spruce, Hemlock Spruce

Origin: North America

Source: Canada

Cultivation method: Wild harvested

Harvest period: April to November

Plant part used: Needles and twigs

Method of extraction: Steam distillation

Main components: *l*-Bornyl Acetate, α -Pinene, Camphene, Tricyclene, *l*-Limonene, β -Pinene

CAS: 8008-80-8

INCI: *Tsuga canadensis* leaf oil

FEMA: 3034

EC: 289-926-6

Appearance: Colorless to pale yellow liquid with a characteristic odor

Certifications and Declarations:



- Certificate of Analysis
- SDS
- Food Grade
- Pure & Natural
- Origin Statement
- GMO Free
- Allergen
- No Animal Testing
- Prop 65

SOURCES

Native American ethnobotany, from Daniel Moerman (1998), (I.book 2014)

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Field guide to Eastern trees, from Georges A. Petrides (1998)

NAET Database, 2003. Native American Ethnobotany Database, Michigan, MI, USA. (<http://naeb.brit.org/>).

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