

# Natural Touch Aromatherapy

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## PURITY ANALYSIS CERTIFICATE PINE (AUSTRIAN, NEEDLE)

**BOTANICAL CLASSIFICATION** *Pinus sylvestris* is a species of the Pinaceae family. Also known as Scotch pine or Forest pine. The essential oil from the Scotch pine needles is one of the most useful and safest, and is widely used in aromatherapy.

**GENERAL DESCRIPTION** Tall, evergreen tree with a reddish-brown bark. The needles grow in pairs and the tree also produces brown cones. The essential oil is a colourless/pale yellow liquid with a strong, dry-balsamic, turpentine-like aroma.

**ORIGIN** The pine essential oil is dry distilled from the needles of Austrian trees.

**GAS LIQUID CHROMATOGRAM** Key components of Natural Touch's essential oil type, as indicated by GLC, are compared to classic profiles below. Austrian pine needle essential oil is primarily made up of monoterpene hydrocarbons such as alpha and beta pinene (together approx 60%), myrcene, limonene and bornyl acetate which gives the oil its pleasant aroma. There are many different species of pine tree and GLC analysis is useful in checking that the right oil with nonirritant components is being used in aromatherapy.

COMPONENT	NATURAL TOUCH(%)	CLASSIC(%)
Alpha pinene	83.4	35 - 50
Beta pinene	2.3	10 - 30
$\Delta$ - 3 - Carene		10 - 20
Myrcene		< 8
Limonene	2.8	3 - 12
Bornyl acetate		1 - 3

- GLC analysis carried out at the Scottish Agricultural College, Auchincruive.
- Official stamp: