

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Abies alba*

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Reference Citation |
|------------------|--------------------|---------------------|---------|----------|----------------------|--|
| 0 | ALPHA-FENCHENE | Leaf | 50.0 | 70.0 | 4.43122346763744 | -- |
| 60 | LIMONENE | Leaf | 855.0 | 1197.0 | 0.8114606080481381 | -- |
| 0 | TRICYCLENE | Leaf | 45.0 | 63.0 | 0.5496290114333532 | -- |
| 28 | ALPHA-PINENE | Plant | 590.0 | 826.0 | 0.103074737609829 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 9 | CAMPHENE | Leaf | 528.0 | 738.0 | 0.08626138487834419 | -- |
| 13 | BETA-PINENE | Leaf | 218.0 | 304.0 | 0.019267779959206085 | -- |
| 22 | MYRCENE | Leaf | 25.0 | 35.0 | -0.1600457060081973 | -- |
| 9 | TERPINOLENE | Leaf | 28.0 | 38.0 | -0.1836873778914288 | -- |
| 5 | SABINENE | Leaf | 5.0 | 7.0 | -0.2567488872230184 | -- |
| 11 | ALPHA-PHELLANDRENE | Leaf | 5.0 | 7.0 | -0.30935714579220713 | -- |
| 11 | GAMMA-TERPINENE | Leaf | 8.0 | 10.0 | -0.3526419772681357 | -- |
| 16 | P-CYMENE | Leaf | 25.0 | 35.0 | -0.37103559986814266 | -- |
| 3 | BETA-PHELLANDRENE | Plant | 32.0 | 46.0 | -0.387752999228035 | -- |
| 8 | DELTA-3-CARENE | Leaf | 2.0 | 4.0 | -0.4250752105699259 | -- |
| 0 | EO | Leaf | 2500.0 | 3500.0 | -0.7067597788859685 | -- |
| 0 | SANTENE | Leaf | 45.0 | 63.0 | | -- |
| 3 | ABIETIC-ACID | Resin, Exudate, Sap | | | | -- |
| 0 | L-BORNYL-ACETATE | Leaf | | | | -- |
| 34 | SALICYLIC-ACID | Plant | | | | -- |
| 0 | L-ALPHA-PINENE | Leaf | | | | -- |
| 0 | BETA-FENCHENE | Leaf | 5.0 | 7.0 | | -- |
| 0 | ALPHA-THUJENE | Leaf | | | | -- |
| 0 | PALUSTRINIC-ACID | Resin, Exudate, Sap | | | | -- |
| 28 | ALPHA-PINENE | Resin, Exudate, Sap | | | | -- |
| 8 | DELTA-3-CARENE | Resin, Exudate, Sap | | | | -- |
| 60 | LIMONENE | Resin, Exudate, Sap | | | | -- |

| Activities Count | Chemical | Plant Part | Low PPM | High PPM | StdDev | Refernce Citation |
|------------------|-------------------------------|---------------------|---------|----------|--------|-------------------|
| 0 | NEOABIETINIC-ACID | Resin, Exudate, Sap | | | | -- |
| 0 | DECYL-ALDEHYDE | Leaf | | | | -- |
| 11 | MALTOL | Plant | | | | -- |
| 0 | CYCLOFENCHENE | Leaf | | 1.0 | | -- |
| 0 | ALPHA-&-BETA-ABIETINOLIC-ACID | Resin, Exudate, Sap | | | | -- |
| 0 | LAURALDEHYDE | Leaf | | | | -- |
| 0 | BORNYLENE | Leaf | 1.0 | 2.0 | | -- |
| 0 | ABIETOSPIRONE | Plant | | | | -- |
| 0 | LAEVOPIMARIC-ACID | Resin, Exudate, Sap | | | | -- |
| 13 | BETA-PINENE | Resin, Exudate, Sap | | | | -- |
| 7 | SUCCINIC-ACID | Resin, Exudate, Sap | | | | -- |
| 0 | ABIETINOLIC-ACID | Resin, Exudate, Sap | | | | -- |
| 2 | L-LIMONENE | Leaf | | | | -- |