

ARAUCARIACEAE

Agathis australis Salisb. ("Kauri").

ESSENTIAL OIL: (+)- α -Pinene, (+)-camphene, (+)-limonene, dipentene, cineole, citronellal, (+)-borneol, bornyl acetate, (—)-cadinene, unidentified sesquiterpene, b.p. 158–163°/2mm, unidentified acids and phenols, (—)-kaurene, (—)-isokaurene, cupressene.—

Hosking, J. R., 1928. *Rec. trav. chim.*, 47: 578.

Hosking, J. R., 1930. *Rec. trav. chim.*, 49: 1036.

Briggs, L. H., Cawley, R. W., 1948. *J. chem. Soc.*: 1888.

Briggs, L. H., Taylor, W. I., 1950. *J. chem. Soc.*: 407.

Briggs, L. H., Cain, B. F., Cambie, R. C., Davis, B. R., Rutledge, P. S., Wilmshurst, J. K., 1963. *J. chem. Soc.*: 1345.

(See also under kaurene and cupressene.)

RESIN: (+)- α -Pinene, (+)-limonene, dipentene, fenchyl alcohol, glucose, galactose, arabinose (—)-leucomaclurin glycol ether, agathic acid, abietic acid, sandaracopimaric acid, communic acid-communol copolymer (?), mixture of diterpenoid oxides (resenes).—

Tschirch, A., Niederstadt, B., 1901. *Arch. Pharm.*, 239: 145.

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Ruzicka, L., Hosking, J. R., 1930. *Helv. Chim. Acta*, 13: 1402.

Ruzicka, L., Hosking, J. R., 1931. *Helv. Chim. Acta*, 14: 203.

Hosking, J. R., 1935. *N.Z. J. Sci. Tech.*, 17: 369.

Ruzicka, L., Jacobs, H., 1938. *Rec. trav. chim.*, 57: 509.

Hosking, J. R., 1939. *Varnish Making, Oils and Colour Chem. Assoc.*: 138.

Brandt, C. W., 1939. *N.Z. J. Sci. Tech.*, 20: 306B.

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Ruzicka, L., Bernold, E., 1941. *Helv. Chim. Acta*, 24: 931.

Ruzicka, L., Bernold, E., 1941. *Helv. Chim. Acta*, 24: 1167.

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Ruzicka, L., Zwicky, R., Jeger, O., 1948. *Helv. Chim. Acta*, 31: 2143.

Gough, L. J., 1964. *Chem. and Ind.*: 2059.

(See also under agathic, sandaracopimaric, and communic acids.)

HEARTWOOD: Pentosans, araucarolone (isopimar-7-ene-2,15-dione-3,16-diol), araucarone, araucarol, araucarenolone, unidentified alkaloid, β -sitosterol.—

Worley, F. P., Brooker, S. G., 1937. *J. Soc. chem. Ind. Lond.*, 56: 74T.

Cain, B. F., Scannell, S., Cambie, R. C., 1960. *N.Z. J. Sci.*, 4: 3.

Enzell, C. R., Thomas, B. R., 1964. *Tetrahedron Letters*, No. 8: 391.

Enzell, C. R., Thomas, B. R., 1956. *Tetrahedron Letters*, No. 4: 225.

Cambie, R. C., Person. Comm.

Araucaria excelsa B. Br. ("Norfolk Island pine").

ESSENTIAL OIL: (+)- α -Pinene, unidentified sesquiterpene, b.p. 122–124°/10 mm, camphene, (+)-limonene, p-cymene, caryophyllene, unidentified monoterpene, humulene (?), phyllocladene, isophyllocladene.—

Briggs, L. H., 1941. *J. Soc. chem. Ind. Lond.*, 60: 222.

Briggs, L. H., Taylor, W. I., 1947. *J. Soc. chem. Ind. Lond.*, 66: 186.

Southward, C. R., 1962. *Thesis, Univ. Auckland.*