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# *Plywood*



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*Virola surinamensis* (Rol. ex Rottb.) Warb.

**Family:** Myristicaceae.

**Synonymies:** *Myristica surinamensis* Rol. ex Rottb.; *Palala surinamensis* (Rol. ex Rottb.) Kuntze.

**Popular names:** Virola-das-ilhas, árvore-do-sebo, bicuíba, bicuíba-branca, noz-moscada, ucuúba, ucuúba-amarela, ucuúba-branca, ucuúba-cheirosa, ucuúba-chorona, ucuúba-da-várzea, ucuúba-do-igapó, ucuúba-preta, ucuúba-verdadeira, ucuúbavermelha, uncuúba-branca, uncuúba-da-várzea.

**General characters:** Heartwood/sapwood barely distinct by color.

Heartwood rosy. Without color alteration by photo-oxidation. Growth ring boundaries indistinct or absent. Wood without brightness in the longitudinal surfaces. Imperceptible smell. Soft to the manual transversal cut. Grain straight. Texture medium. Figure present. Caused by the prominence of vascular lines.

**Vessels/pores:** Vessels present. Visible to the naked eye. Medium diameter (from 100 to 200µm). Diffuse-porous. Medium frequency (from 6 to 30 vessels/2mm<sup>2</sup>). Vessel groupings: predominantly in radial multiples (more than 2/3). With less than 4 vessels. In radial pattern. Of circular to oval outline. Perforation plates observed with a 10x hand lens. Simple perforation; or multiple perforation. Vessels unblocked.

**Axial parenchyma:** Not observed.

**Rays:** Observed. Only with a 10x hand lens on the transversal and tangential surfaces. Contrasted on the radial surface. Fine (smaller than 100µm of width). Low (shorter than 1mm of height). Of little frequency (from 5 to 10 rays/mm).

**Storied structure:** Absent.

**Secretory structure:** Not observed.

**Cambial variants:** Not observed.

**Physical-chemical tests:** Chrome azurol-s test negative. Fluorescence test positive. Of bluish color. Basic specific gravity low (( 0,50g/cm<sup>3</sup>).

**Geographical distribution:** In the northern region of Brazil; or in the northeast region of Brazil; or in the midwest region of Brazil.

**Phytogeographic domain:** Amazônia; or Caatinga.

**Conservation status:** Not included in the official Brazilian flora list of endangered species. Not included in the CITES annex.

**Data about commercialization:** Not included in the list of the 100 most commercialized native species in Brazil in 2008. Not included in the list of the 100 most commercialized species in Brazil in 2009.



*Eucalyptus grandis* W. Hill ex Maiden



**Family:** Myrtaceae.

**Popular names:** Eucalipto.

**General characters:** Heartwood/sapwood distinct by color.

Heartwood rosy. Without color alteration by photo-oxidation.

Growth ring boundaries not clearly distinct, intermediate between distinct and indistinct. Wood without brightness in the longitudinal surfaces. Imperceptible smell. Moderately hard to the manual transversal cut. Grain straight. Texture medium. Figure present. In stripes caused by the growth rings (could form "V" or "U" shapes).

**Vessels/pores:** Vessels present. Visible to the naked eye. Medium diameter (from 100 to 200 $\mu$ m). Diffuse-porous. Medium frequency

(from 6 to 30 vessels/2mm<sup>2</sup>). Vessel groupings: predominantly solitary (more than 2/3). In diagonal pattern. Of circular to oval outline. Perforation plates observed with a 10x hand lens. Simple perforation. Vessels partially blocked. By tyloses.

**Axial parenchyma:** Not observed.

**Rays:** Observed. Only with a 10x hand lens on the transversal and tangential surfaces. Not contrasted on the radial surface. Fine (smaller than 100 $\mu$ m of width). Low (shorter than 1mm of height). Of very little frequency (less than 5 rays/mm).

**Storied structure:** Absent.

**Secretory structure:** Present. Formed by traumatic canals.

**Cambial variants:** Not observed.

**Physical-chemical tests:** Chrome azurol-s test negative. Fluorescence test negative. Basic specific gravity medium (0,50 - 0,72g/cm<sup>3</sup>).

**Geographical distribution:** Exotic of Brazil.

**Conservation status:** Not included in the official Brazilian flora list of endangered species. Not included in the CITES annex.

**Data about commercialization:** Not included in the list of the 100 most commercialized native species in Brazil in 2008. Not included in the list of the 100 most commercialized species in Brazil in 2009.



*Parkia multijuga* Benth.

**Family:** Fabaceae.

**Popular names:** Faveira-arara-tucupi, arara-rucupi, atanã, benguê, camari, caurê, fava-atanã, fava-bolota, fava-arara-tucupi, fava-de-tucupi, faveira-benguê, faveira-branca, faveira-caurê, faveira-de-arara, faveira-grande-da-terra-firme, faveira-pé-de-arara, paricá, paricá-da-terra-firme, tucupi, visgueiro.

**General characters:** Heartwood/sapwood indistinct by color. Heartwood whitish. Without color alteration by photo-oxidation. Growth ring boundaries distinct. Individualized by darker tangential fibrous zones. Wood without brightness in the

longitudinal surfaces. Imperceptible smell. Soft to the manual transversal cut. Grain straight. Texture medium; or coarse. Figure present. Caused by the prominence of vascular lines.

**Vessels/pores:** Vessels present. Visible to the naked eye. Medium diameter (from 100 to 200 $\mu$ m). Diffuse-porous. Medium frequency (from 6 to 30 vessels/2mm<sup>2</sup>). Vessel groupings: predominantly solitary (more than 2/3). In undefined pattern. Of circular to oval outline. Perforation plates observed with a 10x hand lens. Simple perforation. Vessels partially blocked. By whitish substance.

**Axial parenchyma:** Observed. To the naked eye. Paratracheal. Paratracheal vasicentric; or lozenge-aliform.

**Rays:** Observed. Only with a 10x hand lens on the transversal and tangential surfaces. Little contrast on the radial surface. Fine (smaller than 100 $\mu$ m of width). Low (shorter than 1mm of height). Of little frequency (from 5 to 10 rays/mm).

**Storied structure:** Absent.

**Secretory structure:** Not observed.

**Cambial variants:** Not observed.

**Physical-chemical tests:** Chrome azurol-s test negative. Fluorescence test positive. Of yellowish color; or greenish color. Basic specific gravity low (( 0,50g/cm<sup>3</sup>).

**Geographical distribution:** In the northern region of Brazil; or in the midwest region of Brazil.

**Phytogeographic domain:** Amazônia.

**Conservation status:** Not included in the official Brazilian flora list of endangered species. Not included in the CITES annex.

**Data about commercialization:** Included in the list of the 100 most commercialized native species in Brazil in 2008. Included in the list of the 100 most commercialized species in Brazil in 2009.

**Other observations:** The species of this genus are of difficult distinction, there is a great volume of wood in the market just in generic level.



*Ceiba pentandra* (L.) Gaertn.

**Family:** Malvaceae.

**Synonymies:** *Bombax pentandrum* L.

**Popular names:** Sumaúma, árvore-da-lã, árvore-da-seda, ceiba, paina-lisa, paineira, barriguda, sumaúma-cabeluda, sumaúma-lisa, sumaúma-branca, sumaúma-da-várzea, sumaúma-de-macaco, sumaúma-rosada, sumaúma-verdadeira, sumaumeira.

**General characters:** Heartwood/sapwood indistinct by color. Heartwood greyish. Without color alteration by photo-oxidation. Growth ring boundaries not clearly distinct, intermediate between distinct and indistinct. Wood without brightness in the longitudinal surfaces. Imperceptible smell. Soft to the manual transversal cut. Grain straight. Texture coarse. Figure present. Caused by the prominence of vascular lines.

**Vessels/pores:** Vessels present. Visible to the naked eye. Large diameter (larger than 200µm). Diffuse-porous. Low frequency (up to 5 vessels/2mm<sup>2</sup>). Vessel groupings: predominantly solitary (more than 2/3). In undefined pattern. Of circular to oval outline. Perforation plates observed with a 10x hand lens. Simple perforation. Vessels partially blocked. By tyloses.

**Axial parenchyma:** Observed. Only with a 10x hand lens. Apotracheal; or banded. Apotracheal diffuse-in-aggregates. In marginal or seemingly marginal bands.

**Rays:** Observed. By the naked eye on tangential and transversal surfaces. Contrasted on the radial surface. Medium (between 100µm and 200µm of width). High (higher than 1mm of height). Of very little frequency (less than 5 rays/mm).

**Storied structure:** Absent; or present. Irregular.

**Secretory structure:** Not observed.

**Cambial variants:** Not observed.

**Physical-chemical tests:** Chrome azurol-s test negative. Fluorescence test positive. Of yellowish color; or greenish color. Basic specific gravity low (( 0,50g/cm<sup>3</sup>).

**Geographical distribution:** In the northern region of Brazil; or in the northeast region of Brazil.

**Phytogeographic domain:** Amazônia.

**Conservation status:** Not included in the official Brazilian flora list of endangered species. Not included in the CITES annex.

**Data about commercialization:** Included in the list of the 100 most commercialized native species in Brazil in 2008. Included in the list of the 100 most commercialized species in Brazil in 2009.

**Other observations:** Axial parenchyma, fibres, and/or vessel elements storied. High rays nonstoried.