

The chemical composition of Amazonian plants (*)

A Catalogue, edited by Setor de Fitoquimica, INPA, Manaus, Amazonas

FAMILY
LAURACEAE

SPECIE
Aniba sp.

OCCURRENCE: Manaus, Amazonas
TRUNK WOOD:

3,4,5-Trimethoxyallylbenzene (Elemicin)

(2S,3S,3aR)-3a-Allyl-5-methoxy-3-methyl-2-piperonyl-2,3,3a,6-tetrahydro-6-oxobenzofurans (Burchelin, 1a)

(2R,3S,3aS)-3a-Allyl-5-methoxy-3-methyl-2-piperonyl-2,3,3a,6-tetrahydro-6-oxobenzofuran (1b)

(2S,3S,5S)-5-Allyl-5-methoxy-3-methyl-2-piperonyl-2,3,5,6-tetrahydro-6-oxobenzofuran (2)

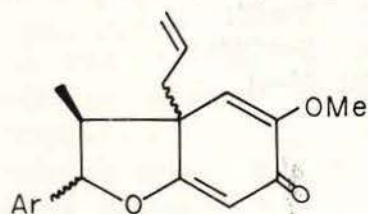
(7R,8R,1'R,2'R,3'S,4'S)- Δ^8 -2',4'-Dihydroxy-3,4-methylenedioxy-1',2',3',4',5',6-hexahydro-5'-oxo-7.3'.8.1'-neolignan (3a)

(7R,8R,1'R,2'R,3'S,4'S)- Δ^8 -2'-Hydroxy-4'-methoxy-3,4-methylenedioxy-1',2',3',4',5',6-hexahydro-5'-oxoneolignan (3b)

(7R,8R,1'R,2'R,3'S,4'R)- Δ^8 -2'-Hydroxy-4'-methoxy-3,4-methylenedioxy-1',2',3',4',5',6-hexahydro-5-oxo-7.3'.8.1'-neolignan (3c)

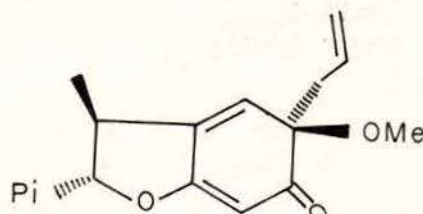
(7R,8R,1'S,3'S)- Δ^8 -4-Hydroxy-3,5'-dimethoxy-1',2',3',4'-tetrahydro-4'-oxo-7.3'.8.1'-neolignan (4a)

(7R,8R,1'R,3'S)- Δ^8 -4-Hydroxy-3,5'-dimethoxy-1',2',3',4',5',6-hexahydro-4'-oxo-7.3'.8.1'-neolignan (4b)

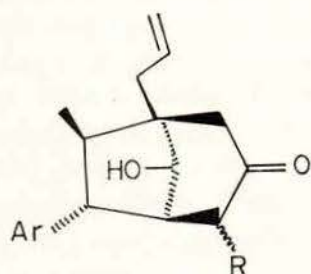


1a Ar = α -Pi, β -allyl

1b Ar = β -Pi, α -allyl



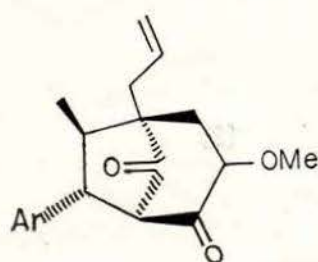
2



3a Ar = Pi R = β -OH

3b Ar = Pi R = β -OMe

3c Ar = Pi R = α -OMe



4a Ar = Gu, $\Delta^{5'6'}$

4b Ar = Gu

REFERENCES :

1. Juan C. Martinez V., J. G. Soares Maia, Masayoshi Yoshida and Otto R. Gottlieb (1980) *Phytochemistry* 19(3):474-476).
2. Otto R. Gottlieb, M. Leão da Silva and Zenaide S. Ferreira (1975) *Phytochemistry* 14(8):1825-1827.

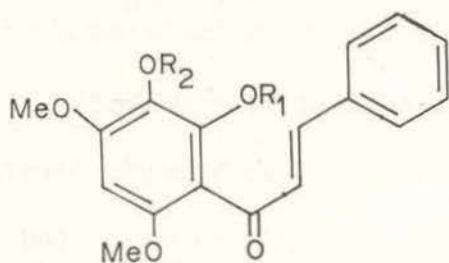
(*) — Contributions to this Catalogue, which will be continued in subsequent issues of this Journal, are invited and should be submitted to address give above.

FAMILY:
PIPERACEAE

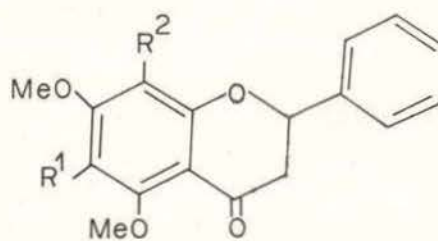
SPECIES:
Piper hispidum Sw. var
obliquum Tr. Yunker

OCCURRENCE: Pará
BRANCHES AND LEAVES:

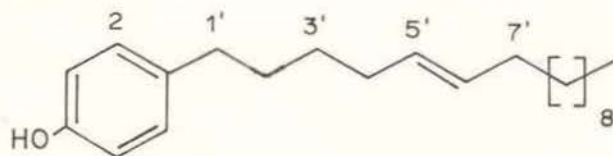
- 2',3'-Dihydroxy-4',6'-dimethoxychalcone (1a)
2'-Hydroxy-3',4',6'-trimethoxychalcone (1b)
(±)-8-Hydroxy-5,7-dimethoxyflavanone (2a)
(±)-5,7,8-Trimethoxyflavanone (2b)
(±)-6-Hydroxy-5,7-dimethoxyflavanone (2c)
4-(5'E-n-Hexadecenyl)-phenol (3)



- 1a R¹=R²=H
1b R¹=H R²=Me



- 2a R¹=H R²=OH
2b R¹=H R²=OMe
2c R¹=OH R²=H



(3)

REFERENCE :

Paulo C. Vieira, Marden A. de Alvarenga, Otto R. Gottlieb, Hugo E. Gottlieb (1980) *Planta Medica* 39 (2) : 153.