The chemical composition of Amazonian plants (*)

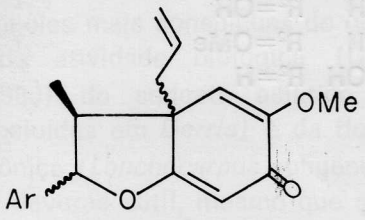
A Catalogue, edited by Setor de Fitoquimca, INPA, Manaus, Amazonas

FAMILY
LAURACEAE

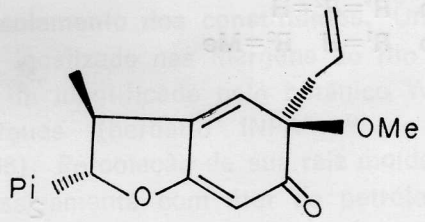
SPECIE
Aniba sp.

OCCURRENCE: Manaus, Amazonas
TRUNK WOOD:

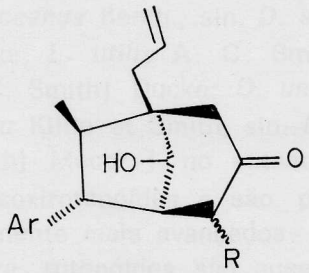
3,4,5-Trimethoxyallylbenzene (Elemicin)
(2S,3S,3aR)-3a-Allyl-5-methoxy-3-methyl-2-piperonyl-2,3,3a,6-tetrahydro-6-oxobenzofurans (Burchelin, 1a)
(2R,3S,3aS)-3a-Allyl-5-methoxy-3-methyl-2-piperonyl-2,3,3a,6-tetrahydro-6-oxobenzofuran (1b)
(2S,3S,5S)-5-Allyl-5-methoxy-3-methyl-2-piperonyl-2,3,5,6-tetrahydro-6-oxobenzofuran (2)
(7R,8R,1'R,2'R,3'S,4'S)-$\Delta^{8'}$-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)-$\Delta^{8'}$-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)-$\Delta^{8'}$-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)-$\Delta^{8'}$-4-Hydroxy-3,5'-dimethoxy-1',2',3',4'-tetrahydro-4'-oxo-7.3',8.1'-neolignam (4a)
(7R,8R,1'R,3'S)-$\Delta^{8'}$-4-Hydroxy-3,5'-dimethoxy-1',2',3',4',5'6-hexahydro-4'-oxo-7.3',8.1-neolignan (4b)



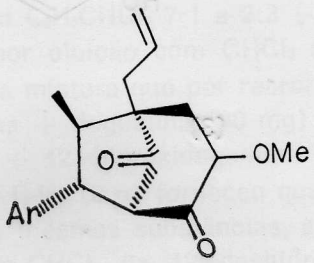
1a Ar = ∝-Pi, β - allyl
1b Ar = β-Pi, ∝-allyl



2



3a Ar=Pi R=β - OH
3b Ar=Pi R=β - OMe
3c Ar=Pi R=∝-OMe



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

REFERENCES:

1. Juan C. Martinez V., J. G. Soares Maia, Massayoshi 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.

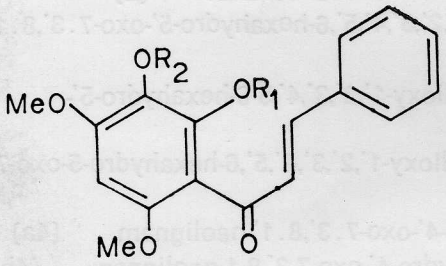
(*) — Contributions to this Catalogue, which will be continued in subsequent issues of this Journal, are invited and should be submitted to addres give above.

FAMILY:
PIPERACEAE

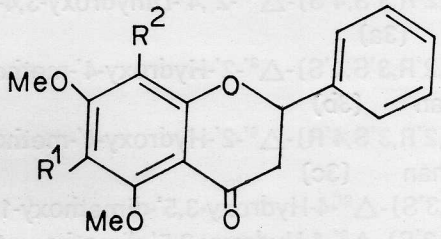
SPECIES:
Piper hispidum Sw. var obliquum Tr. Yunker

OCCURRENCE: Pará
BRANCHES AND LEAVES:

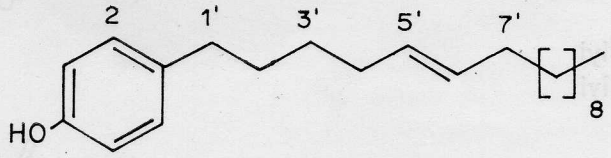
2',3'-Dihydroxy-4',6'-dimethoxychalcone (1a)
2'-Hydroxy-3',4',6'-trimethoxychalcone (1b)
(±)-8-Hydroxy-5,7-dimethoxyflavanone (2a)
(±)-5,7,8-Trimethoxyflavanone (2b)
(±)-6-Hydroxy-5,7-dimethoxyflavanone (2c)
4-(5'E-n-Hexadecenyl)-phenol (3)



1a $R^1=R^2=H$
1b $R^1=H$ $R^2=Me$



2a $R^1=H$ $R^2=OH$
2b $R^1=H$ $R^2=OMe$
2c $R^1=OH$ $R^2=H$



(3)

REFERENCE :

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