

aventures analytiques

Cryptocarya massoy

Felis catus

Lophocolea spp.

Wistaria sinensis

Plumeria rubra

CECM, Grasse, 21 octobre 2005

**en souvenir de A.G.J.H. « *Doc* » Kostermans
1906-1994**









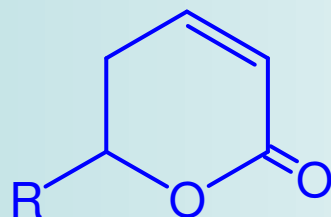






Constituants principaux de l'huile essentielle d'écorces de massoya

→ *plus de 99.9% identifiés !*

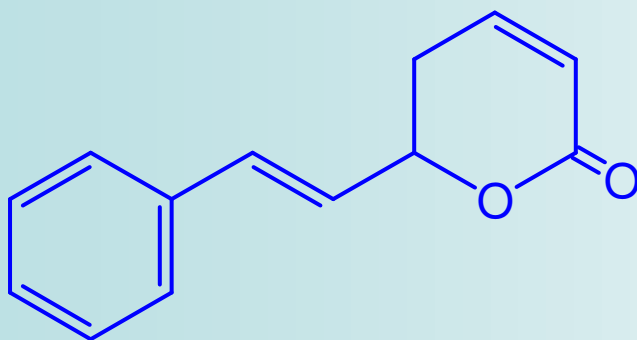


$R = C_5H_{11}$: 50-80% (« C-10 »)

$R = C_7H_{15}$: 5-20% (« C-12 »)

$R = C_9H_{19}$: <2%

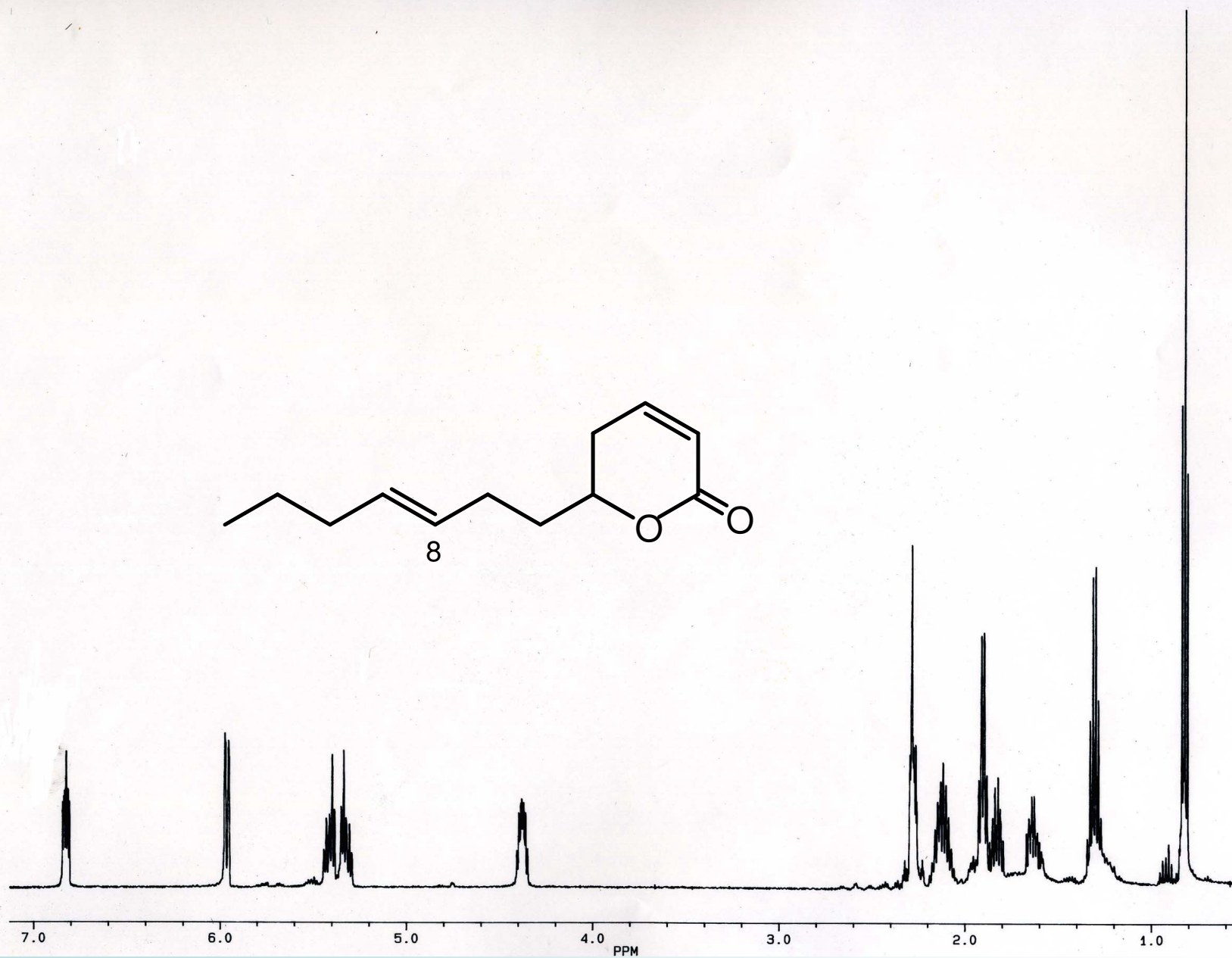
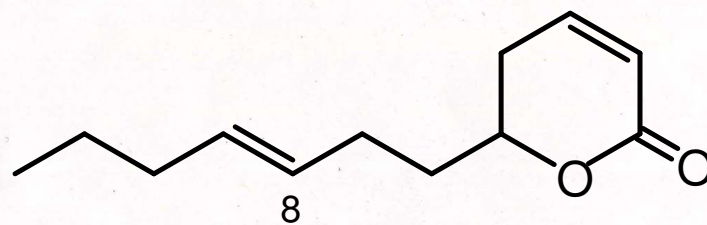
$R = C_{11}H_{23}$: trace



goniotalamine : <3%

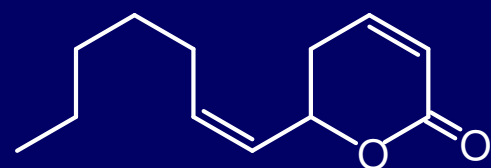
benzoate de benzyle : 3-8%

salicylate de benzyle : 1-3%

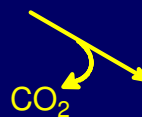
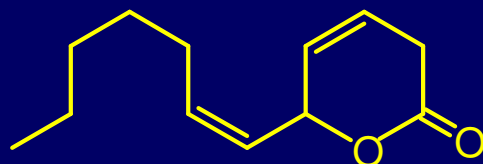


artefacts chimiques dans les essences et isolats de massoya

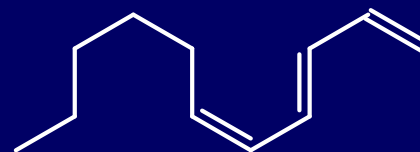
- réactions pendant le traitement des écorces
- réactions pendant les traitements de l'essence

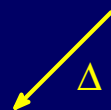
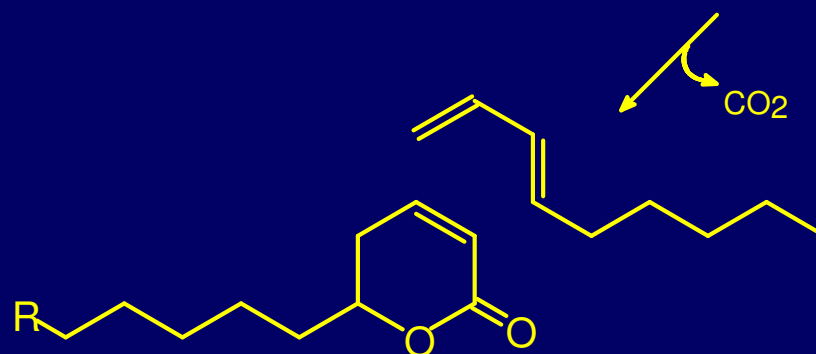
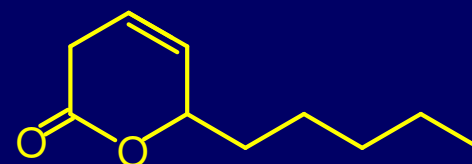
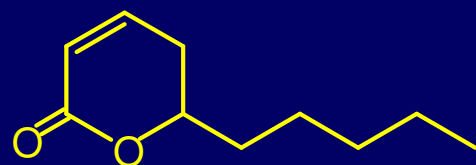


argentilactone

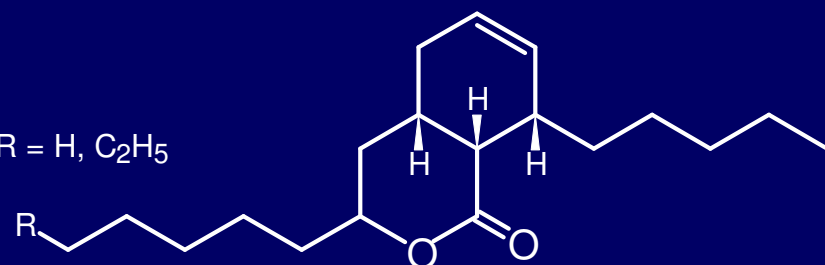


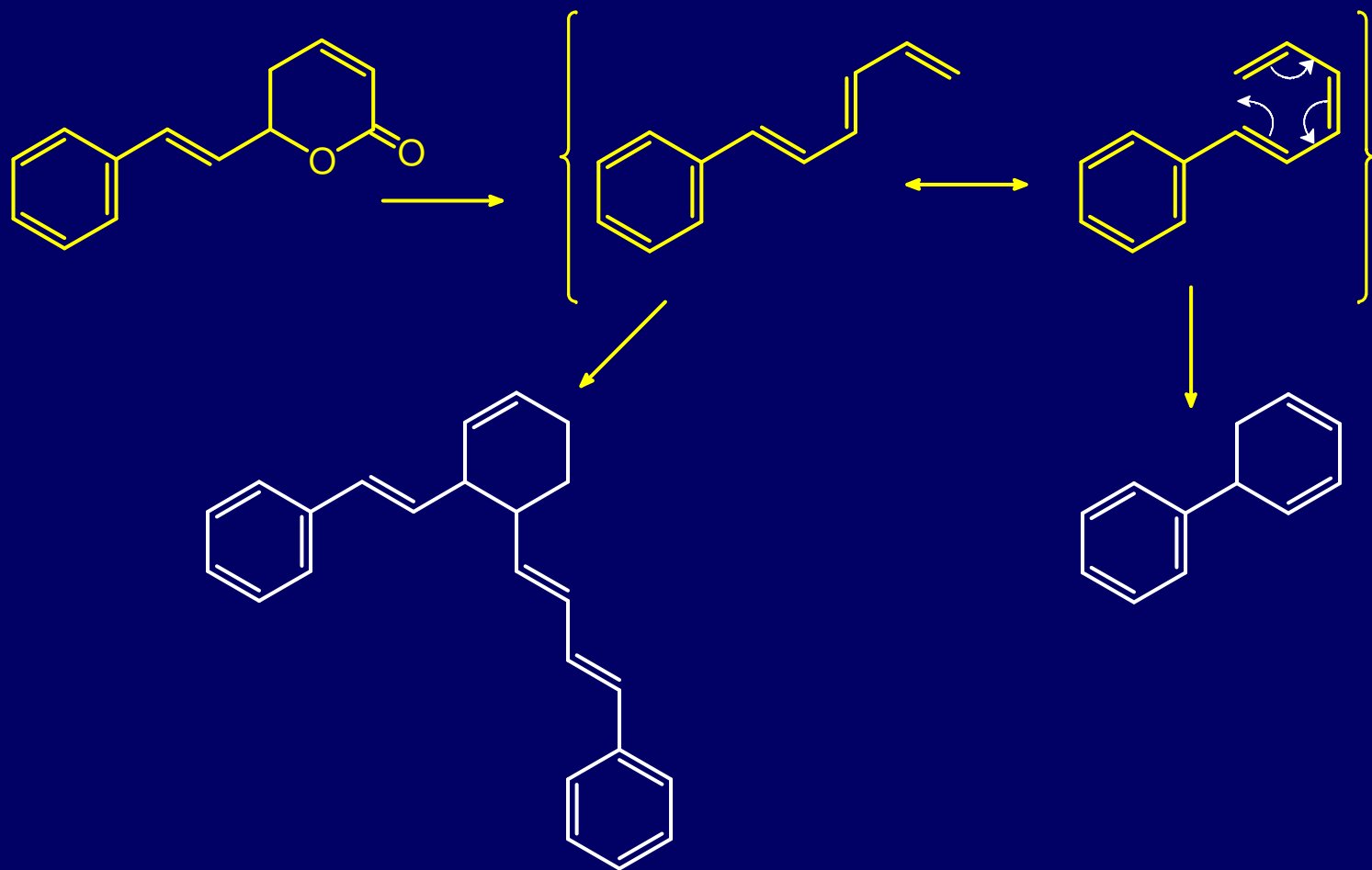
(3Z,5E)-1,3,5-undecatriene

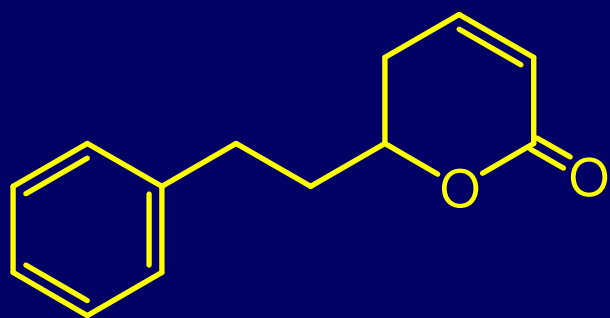




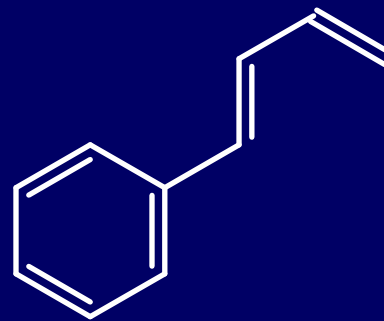
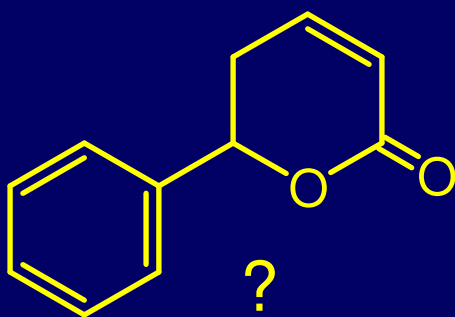
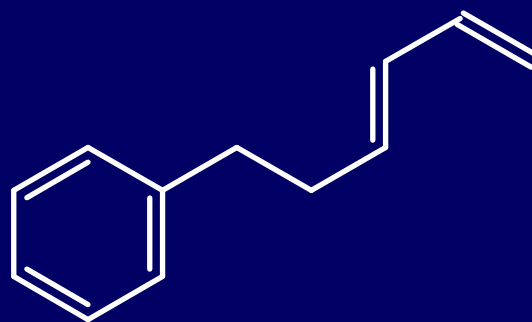
R = H, C₂H₅



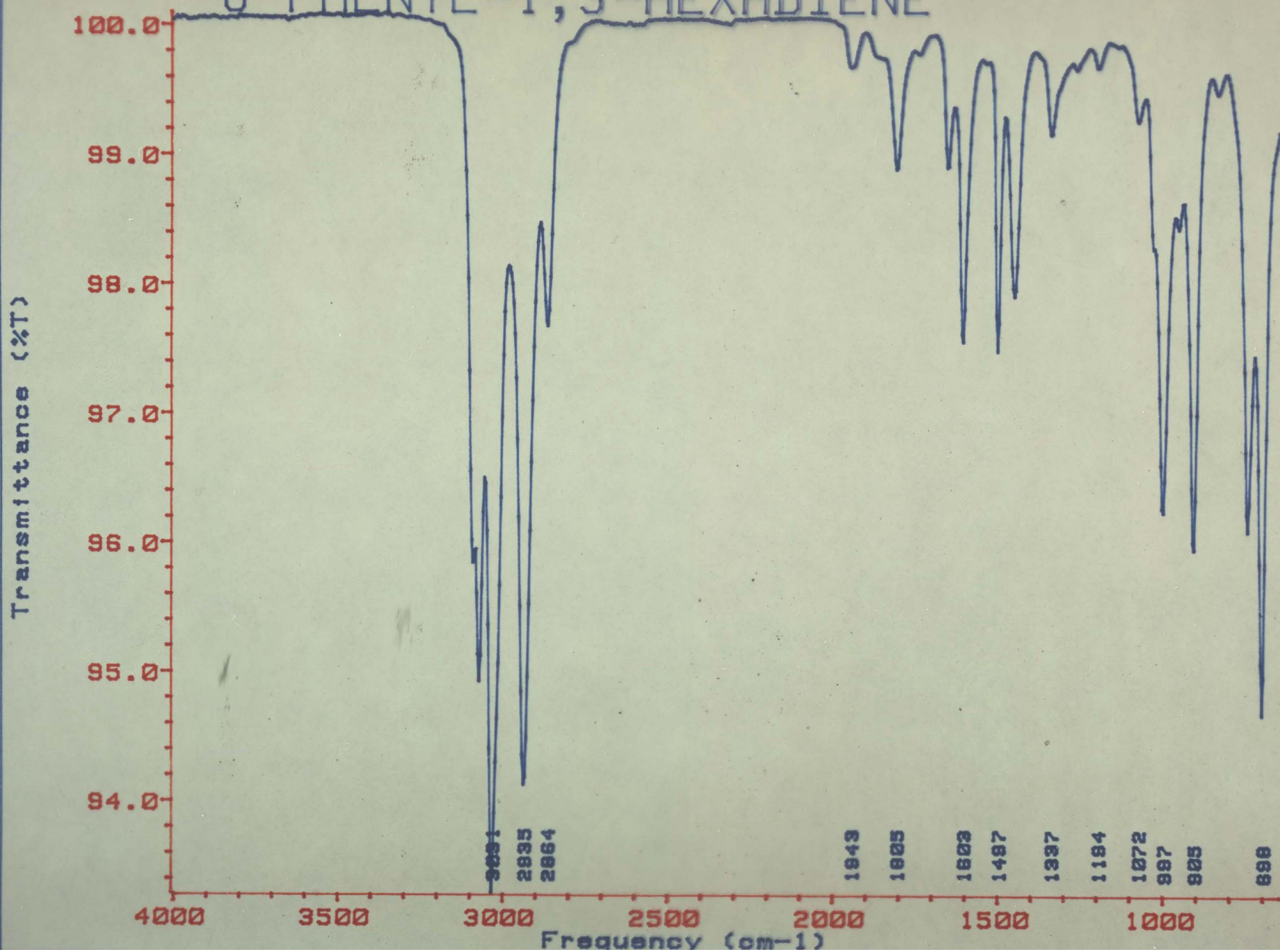




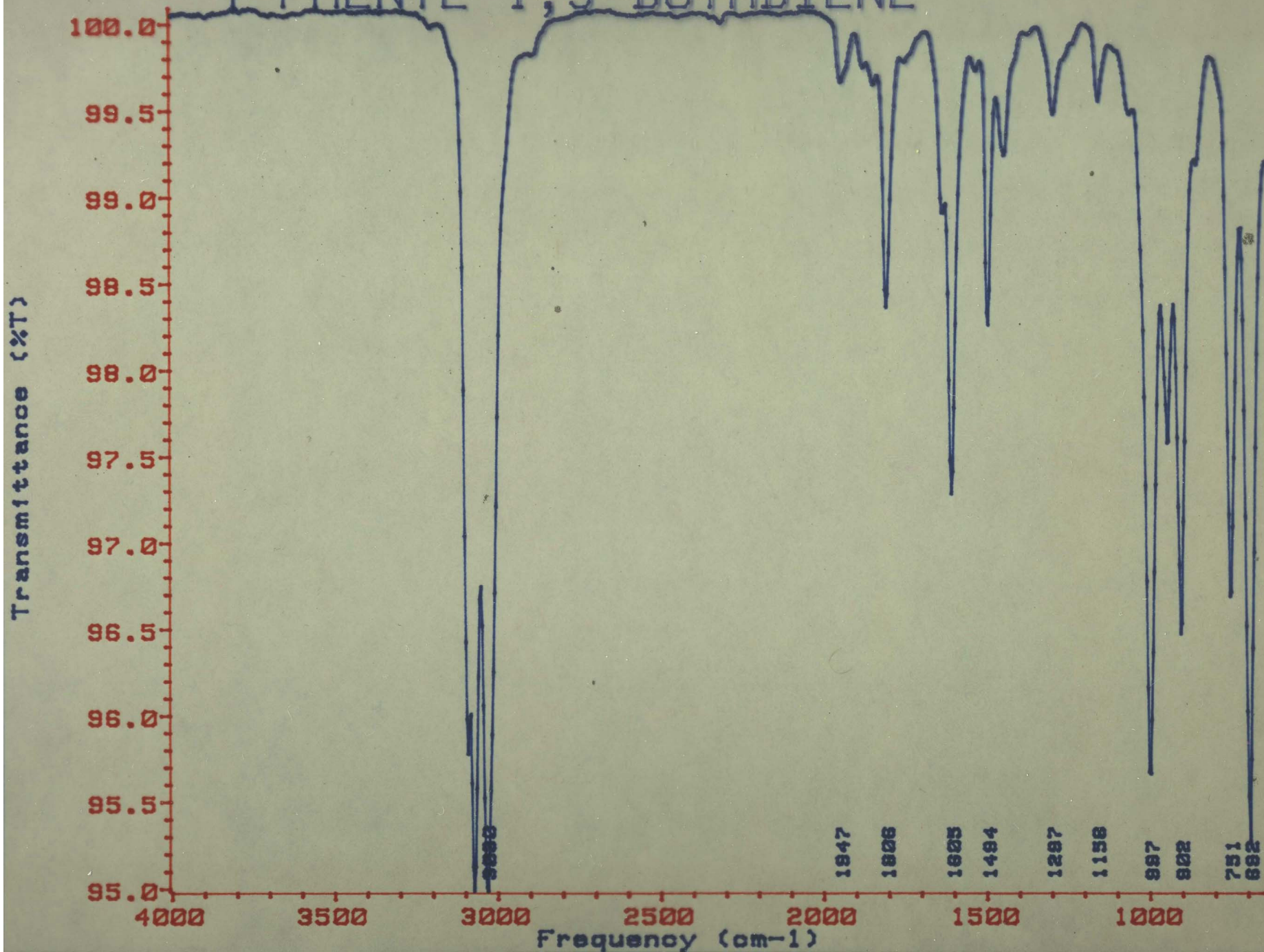
dihydrogoniothalamine



6-PHENYL-1,3-HEXADIENE

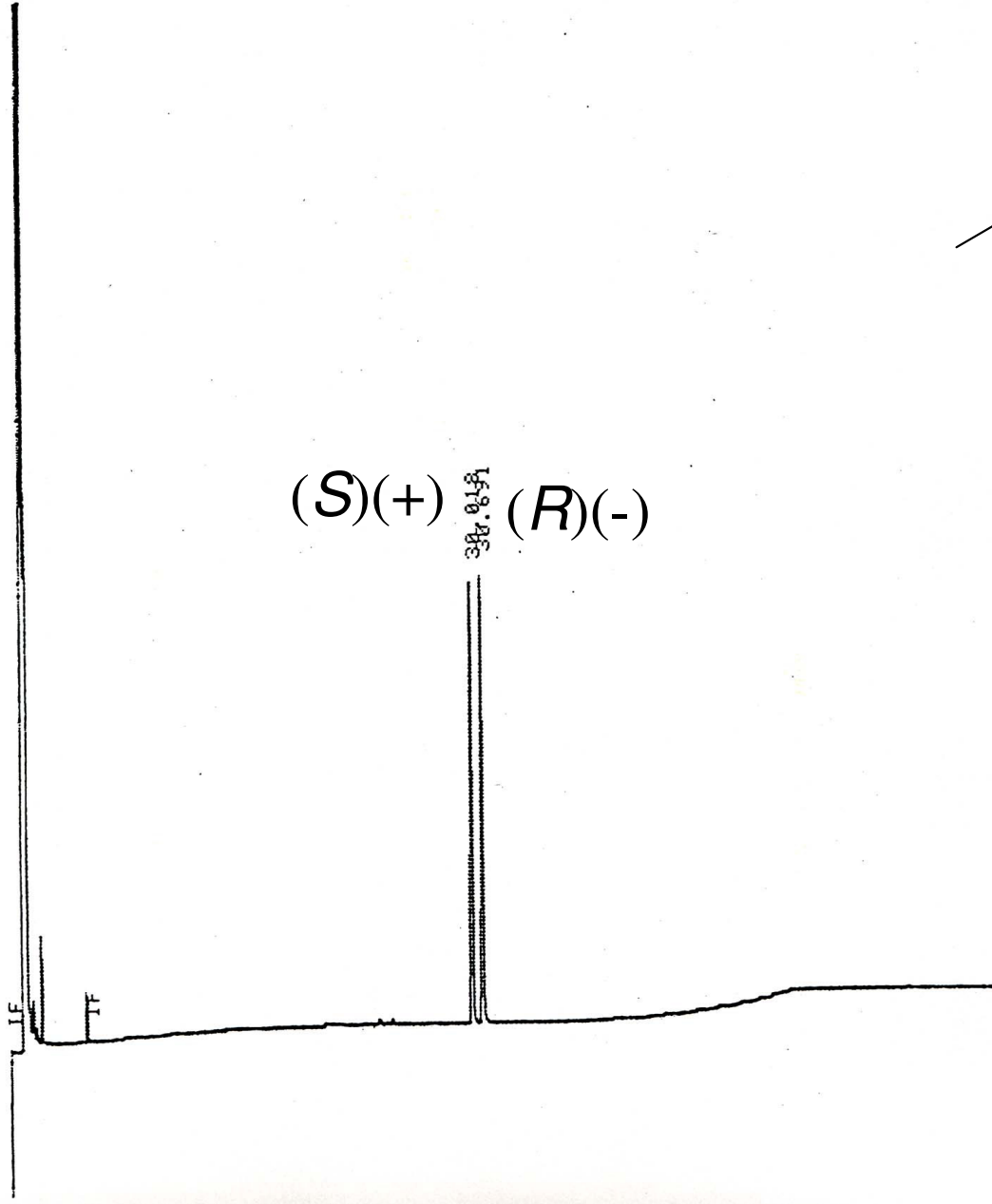


4-PHENYL-1,3-BUTADIENE



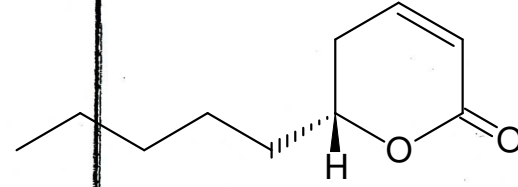
* RUN # 792 MAY 22, 1992 12:03:48

START

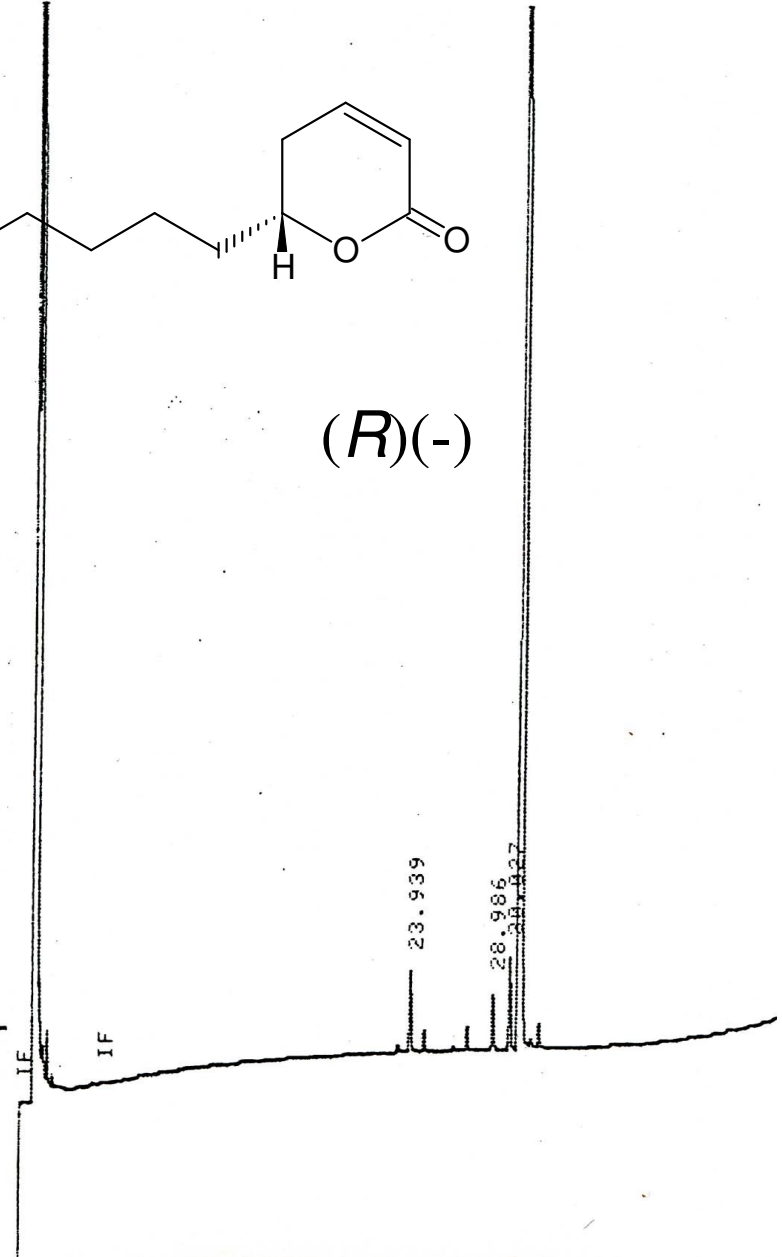


16.985

(S)(+) (R)(-)



(R)(-)



23.939

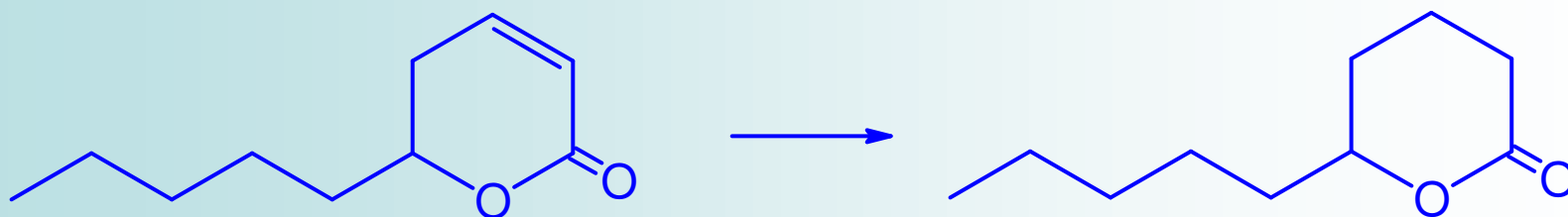
28.986

30.558

30.558

Production de la δ -décàlactone naturelle

par réduction microbienne



EP 425001 (PFW/Tastemaker, 1989)
EP 822259 (Hasegawa, 2 août 1997)
EP 899342 (Firmenich, 27 août 1997)
EP 952226 (IFF, 1998)

réduction microbienne

4

2

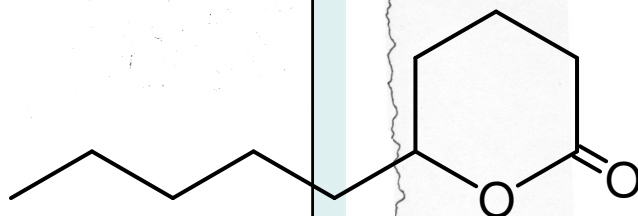
64.5 ppm

3

129 ppm

hydrogénation catalytique

6



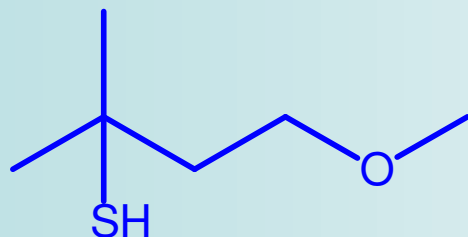
7

131 ppm

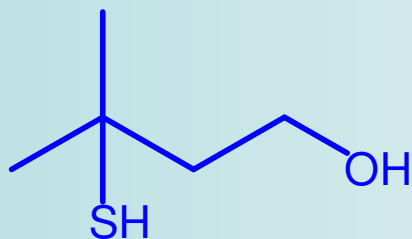
5

138 ppm

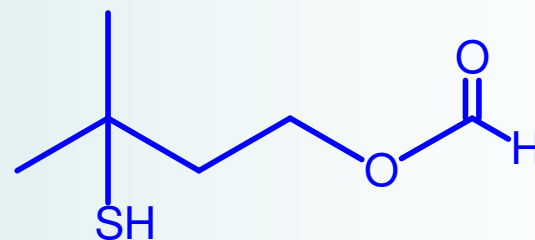
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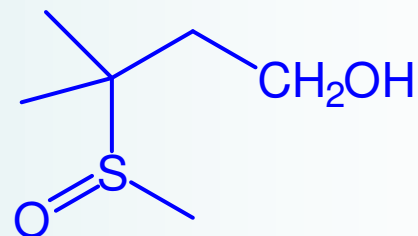
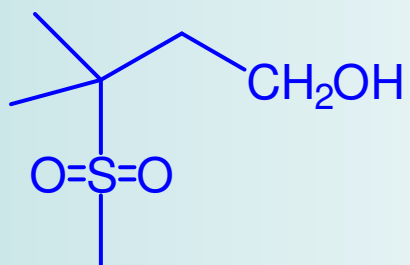
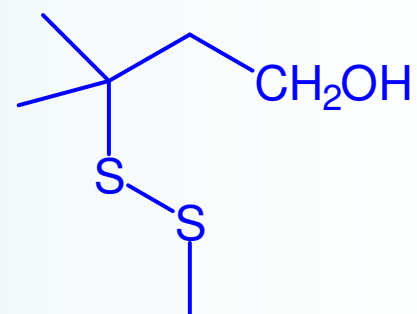
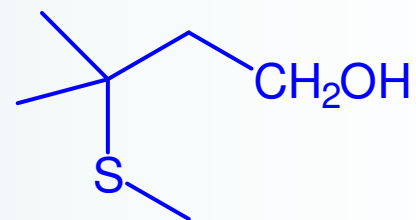
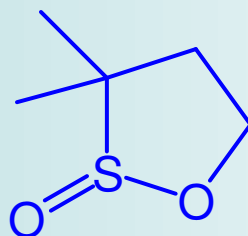
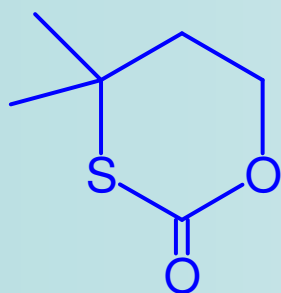
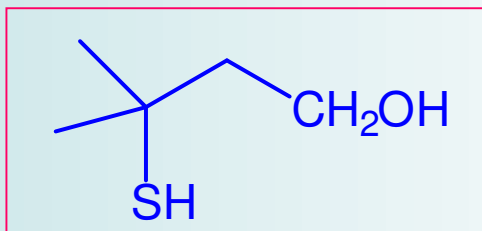
cassis
huile d'olive (c = 0,4-4 ppb)



urine de chat
vin blanc
café (seuil: 2-6 ppb)

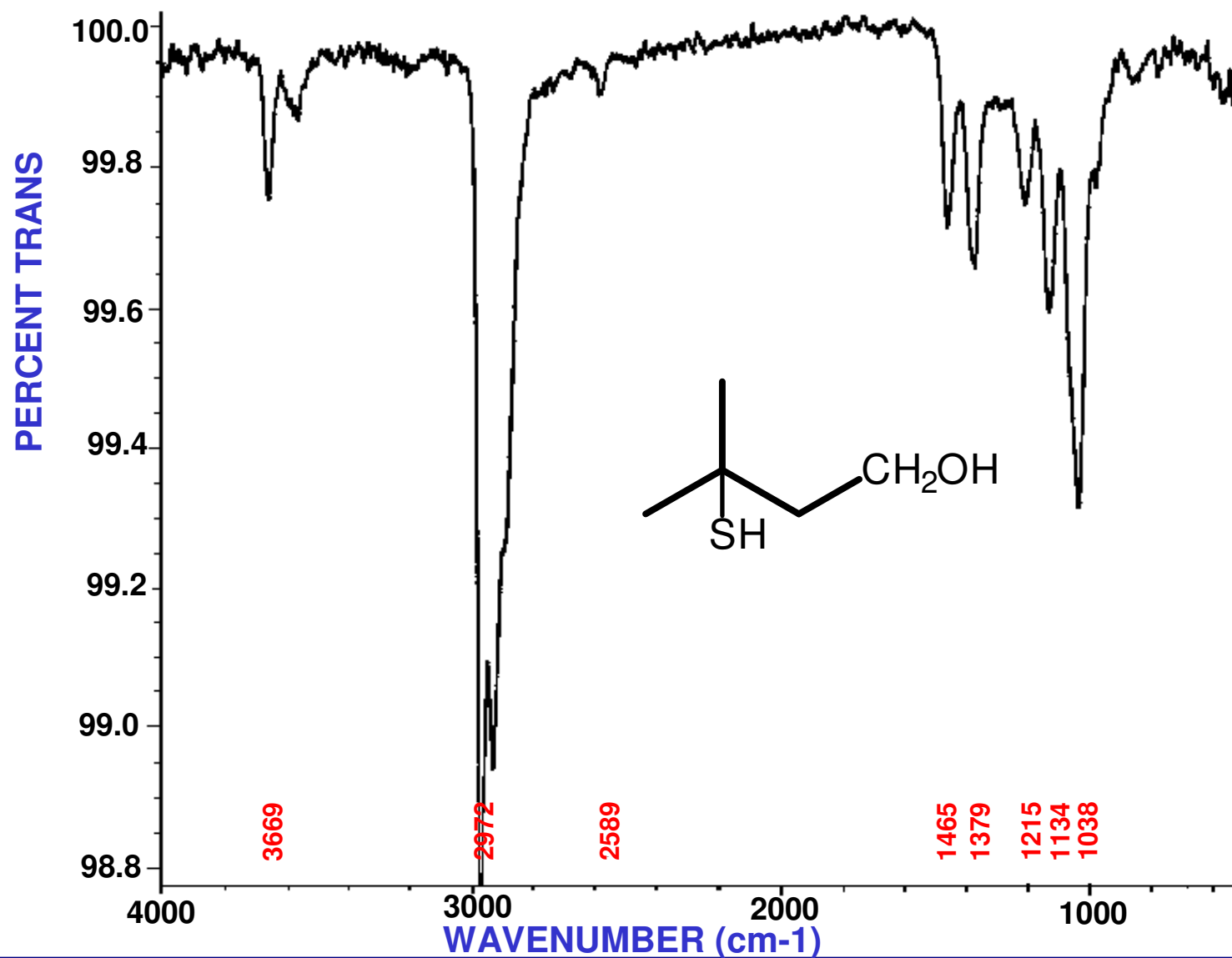


café (x 1000)

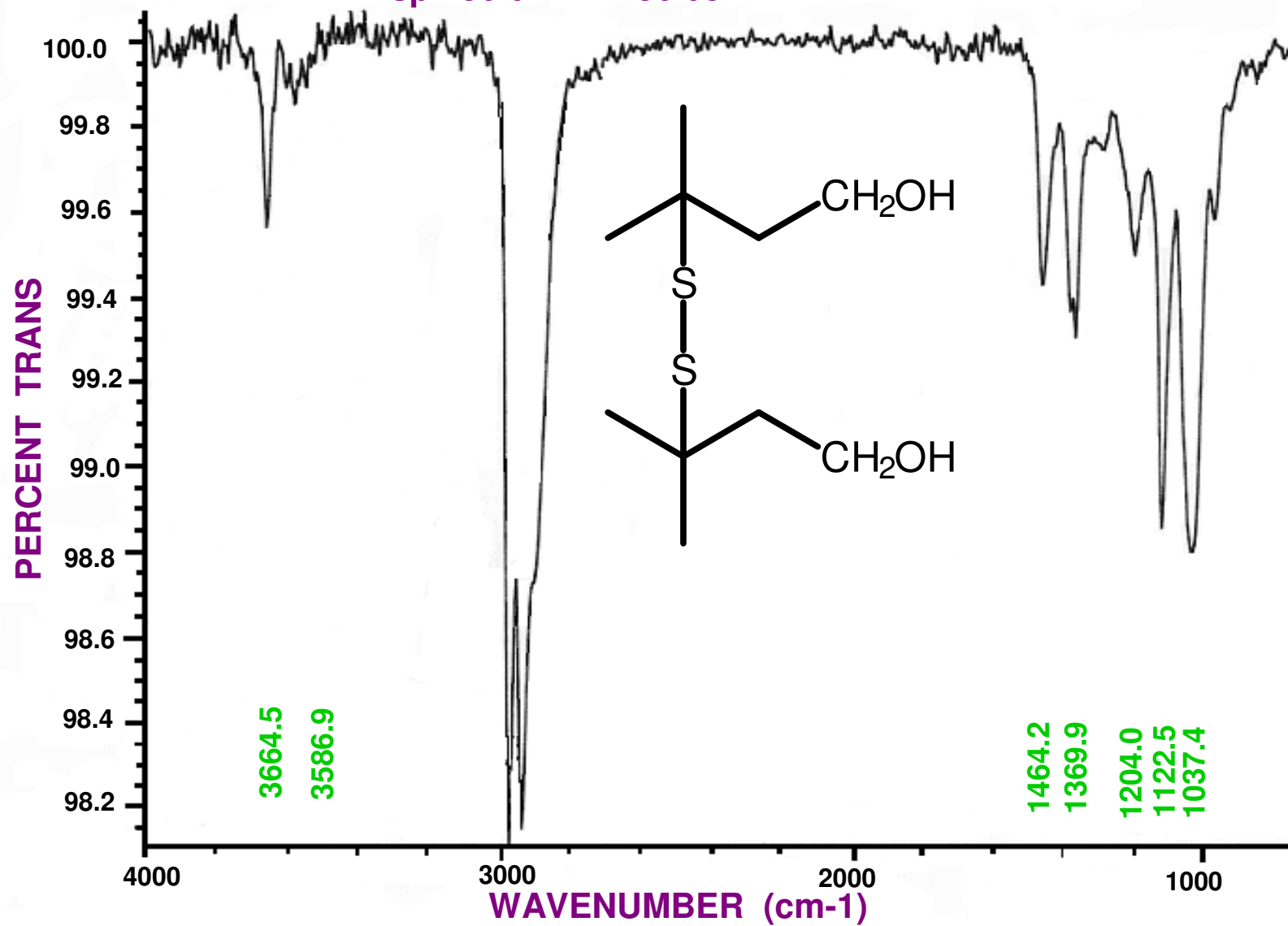


D. Joulain et R. Laurent, 11th International Congress of Essential Oils, New Delhi, 1989

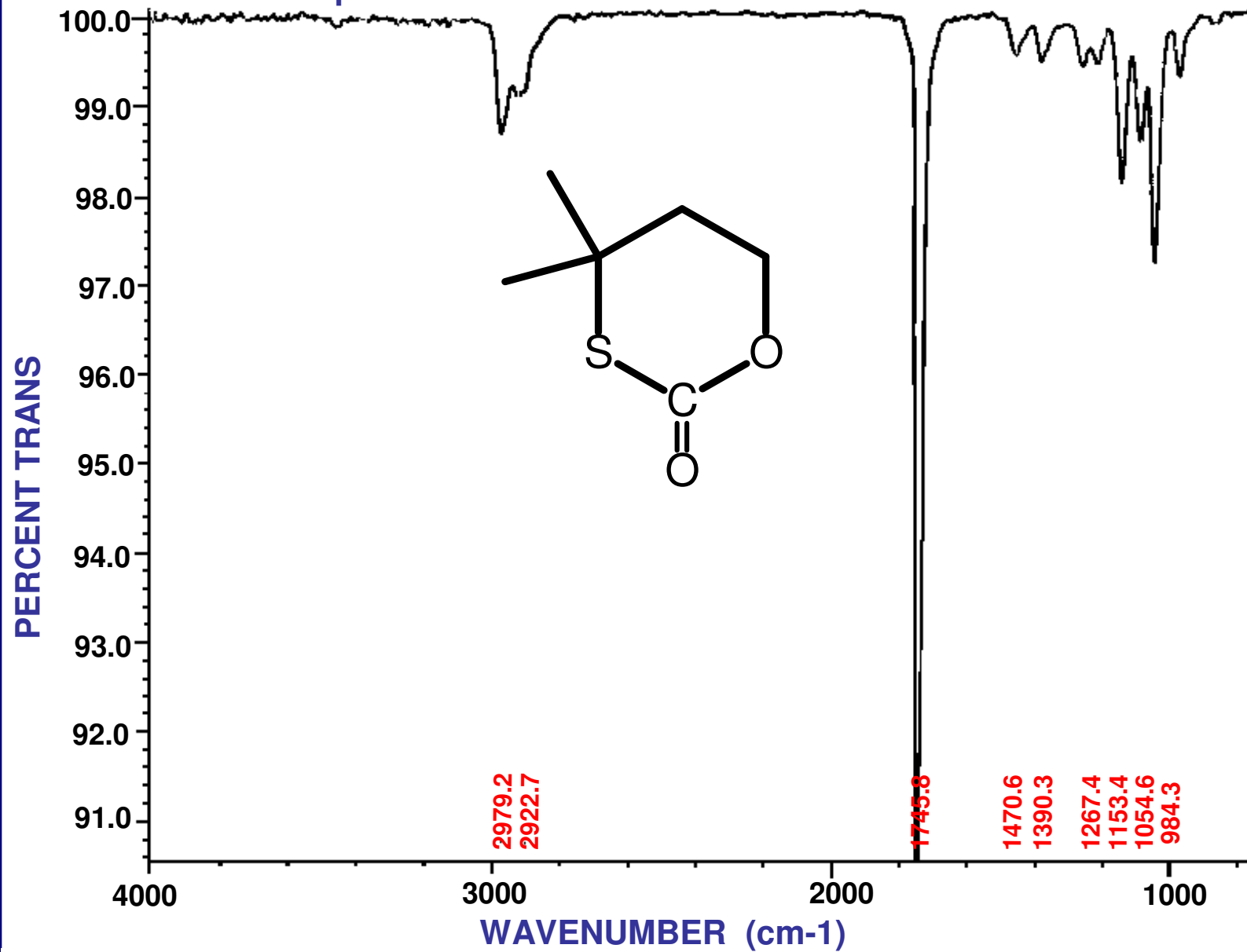
TSP 11.154 - 11.222 min. DATA:RBT .599.D

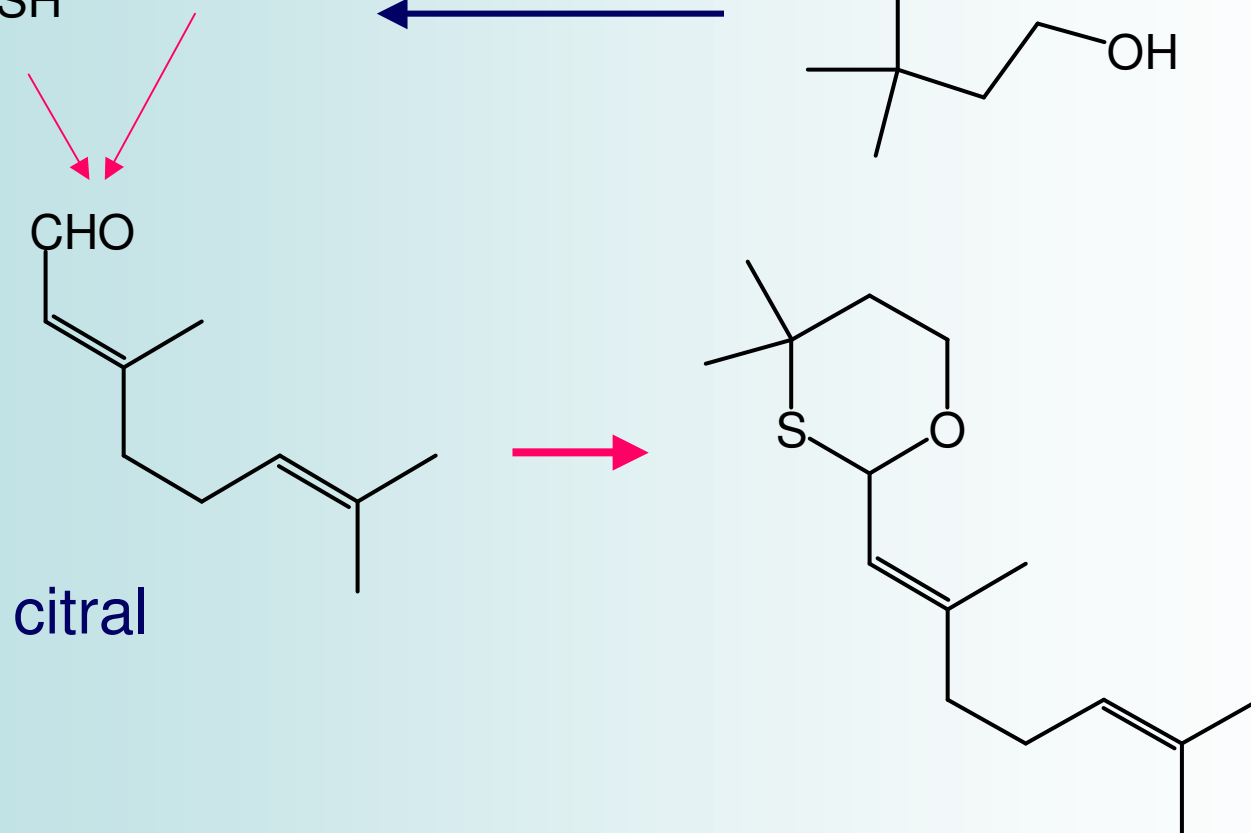
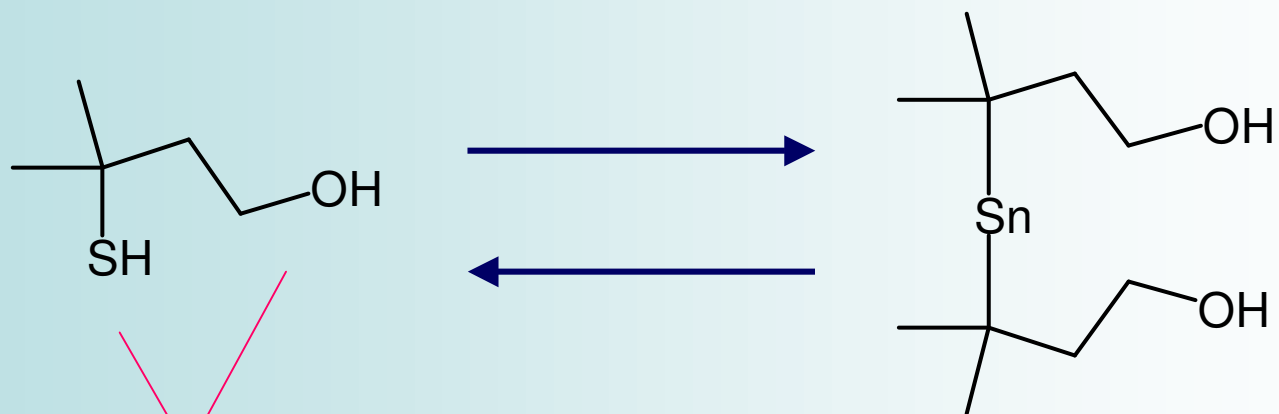


T sp 36.011 - 36.051 min. DATA:DATA.D



T sp 20.392 - 20.445 min. DATA:DATA.D







Information

La litière minérale Hygiène Carrefour bénéficie d'une formule brevetée pour combattre les odeurs d'urine : un complexe de molécules neutralise directement les odeurs initialement présentes dans l'urine du chat ainsi que celles issues de la décomposition opérée par les bactéries. L'action "anti-odeurs d'urine" est immédiatement perceptible et la durée d'utilisation de cette litière est doublée par rapport à l'ancienne litière minérale Carrefour.

Intensité de l'odeur



Conseils d'utilisation

- Étendre environ 3 cm de litière dans le bac.
- Renouveler quotidiennement la litière saturée et les excréments solides.
- Remplacer la quantité de litière manquante.
- Nettoyer et désinfecter le bac tous les 12 jours environ.

Précaution d'emploi

Ne pas jeter dans les toilettes, risque d'obstruction.

Conforme à la norme Afnor V 19-001

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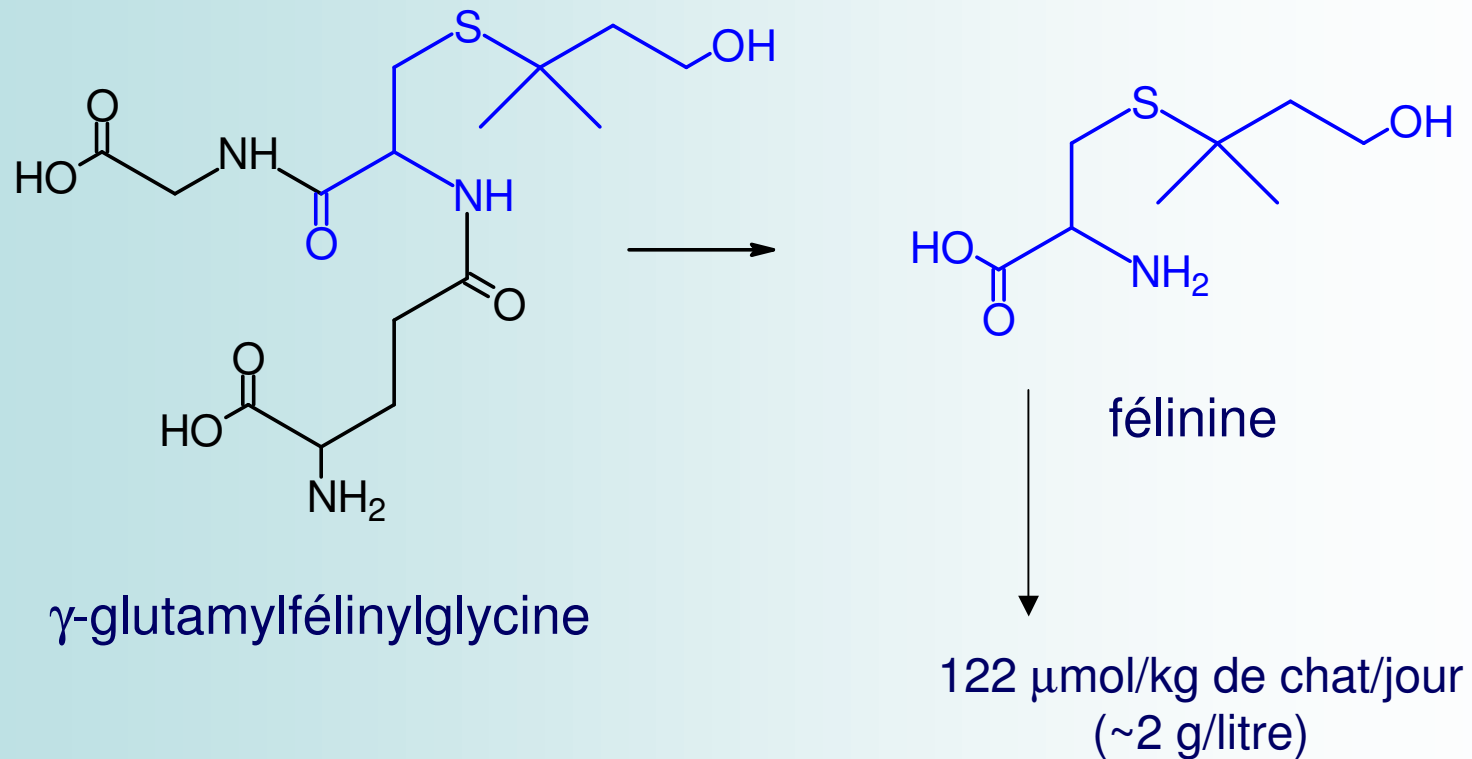


**Institute of Food, Nutrition
and Human Health**
Massey University
Palmerston North, (NZ)

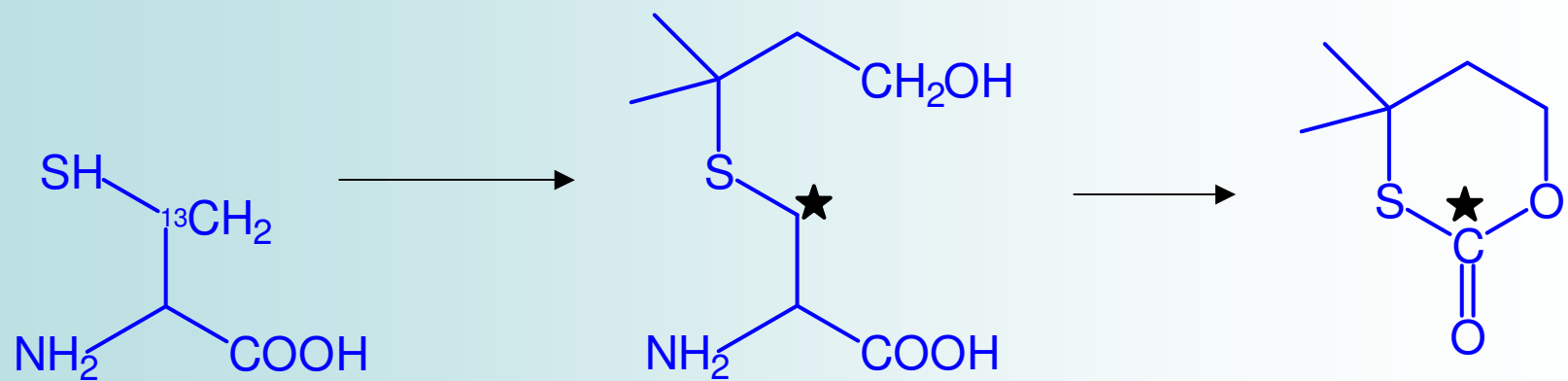
Wouter H. Hendriks

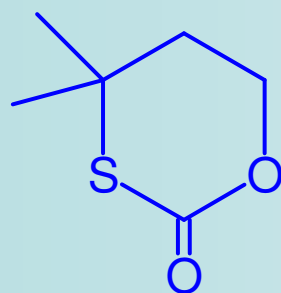
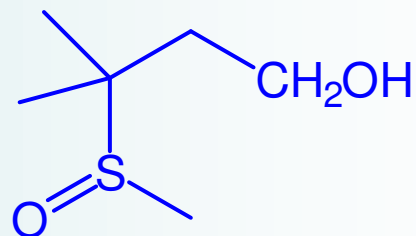
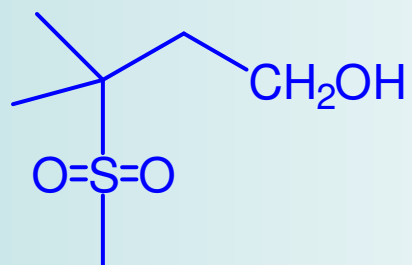
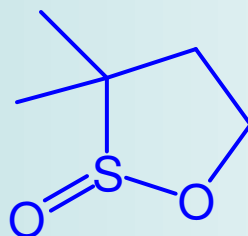
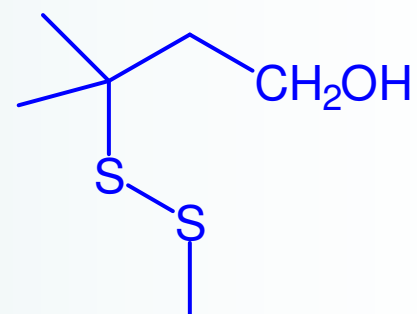
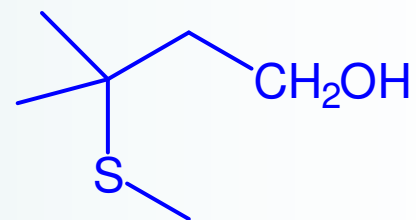
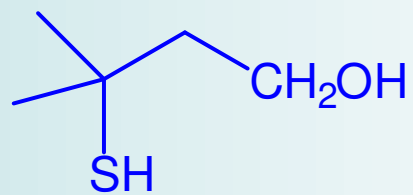


Métabolisme rénal d'un nouveau tripeptide chez le chat domestique (*Felis catus*)



W. H. Hendriks *et al.*, *Comp. Biochem. Physiol.* 2004, **139B**, 245

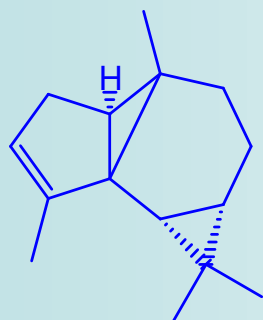




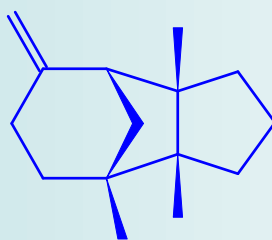
Lophocolea heterophylla



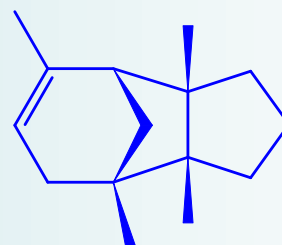
Les sesquiterpènes de *Lophocolea heterophylla* et *L. bidentata*



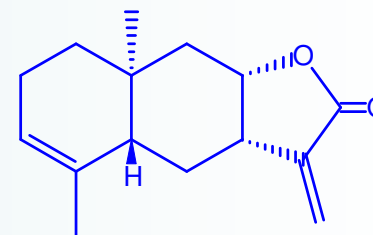
anastreptene



β -barbatène



α -barbatène



diplophyllolide

L. heterophylla 0,96%

N.D.

32,3%

N.D.

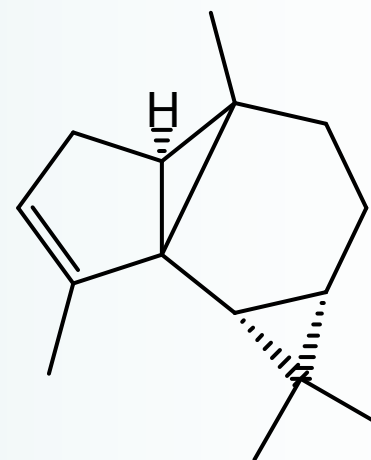
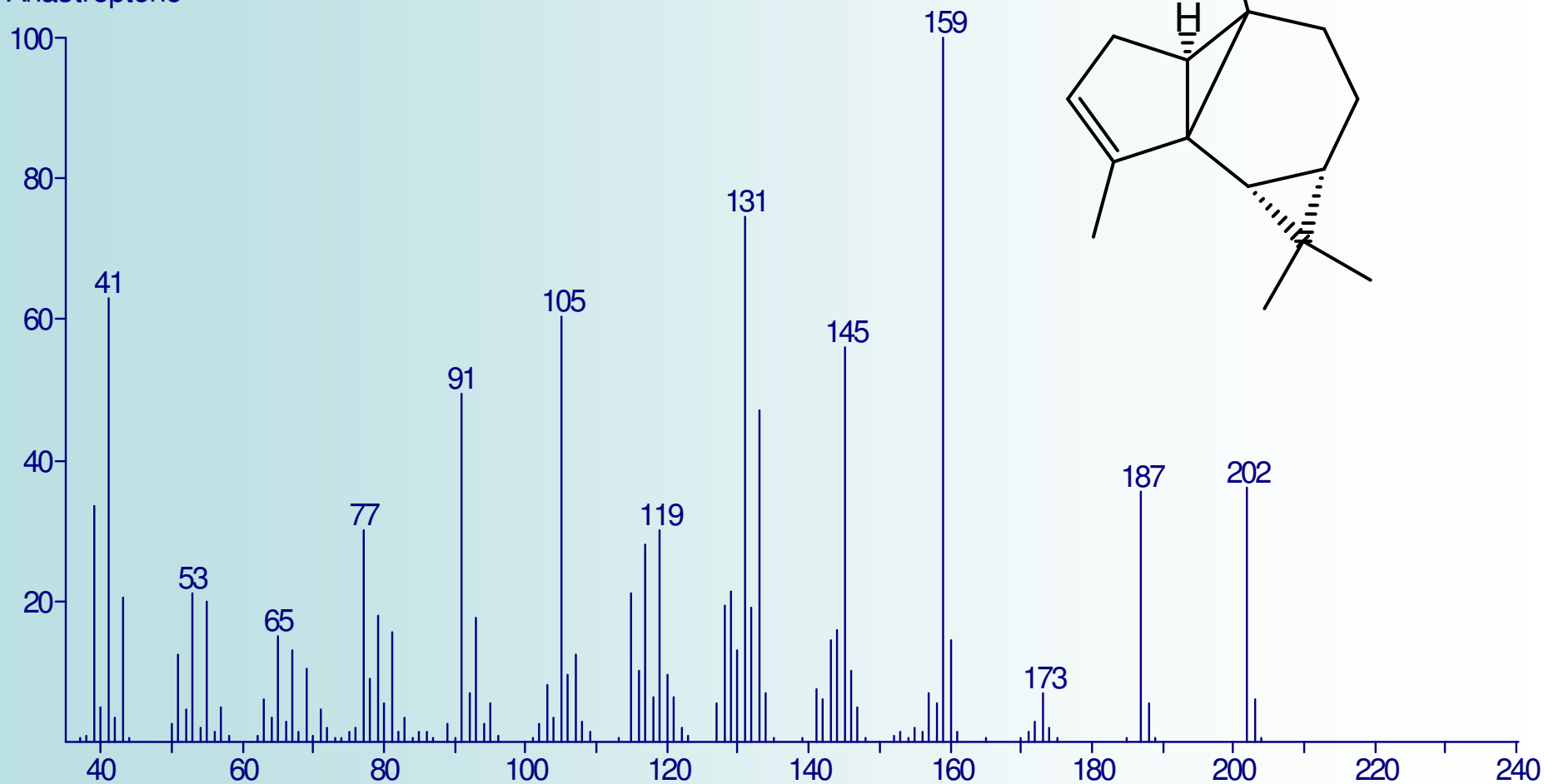
L. bidentata 2,8%

4,0%

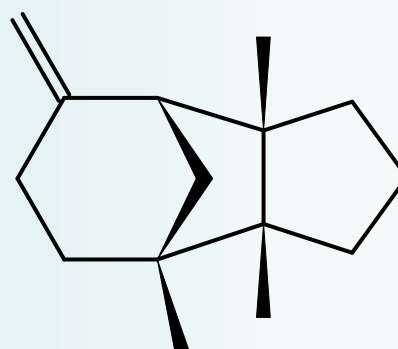
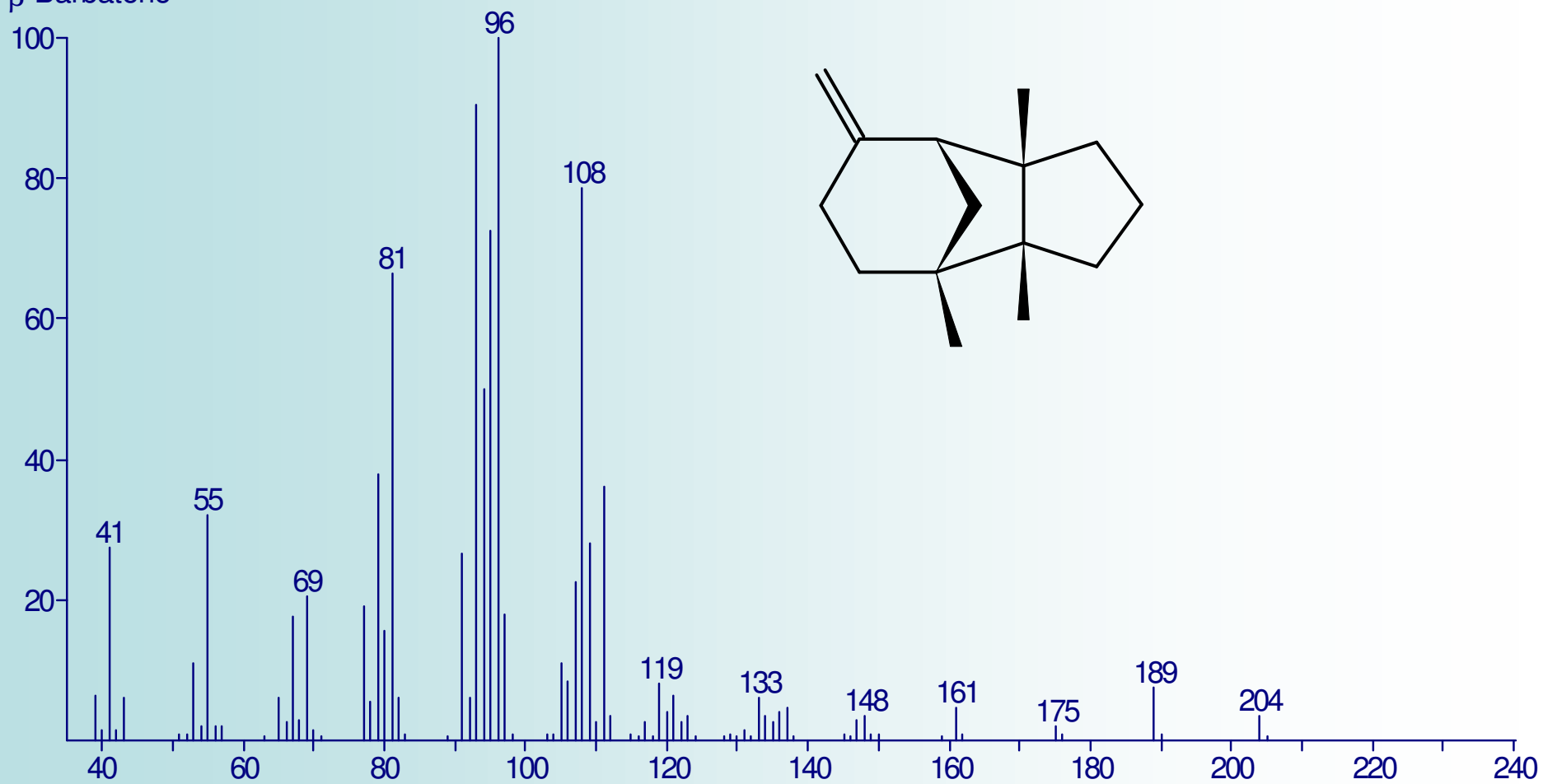
trace

30,0%

Anastreptene



β -Barbatene



Daniel Joulain & Wilfried A. König

The Atlas of Spectral Data of Sesquiterpene Hydrocarbons

The Atlas of Spectral Data of Sesquiterpene Hydrocarbons

by Daniel Joulain and Wilfried A. König

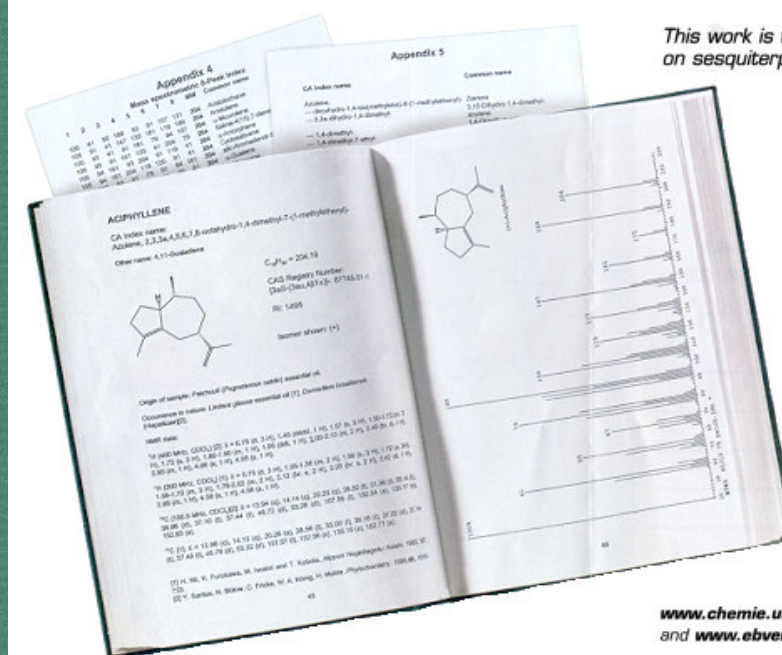
This work is the **most complete data collection** on sesquiterpene hydrocarbons containing:

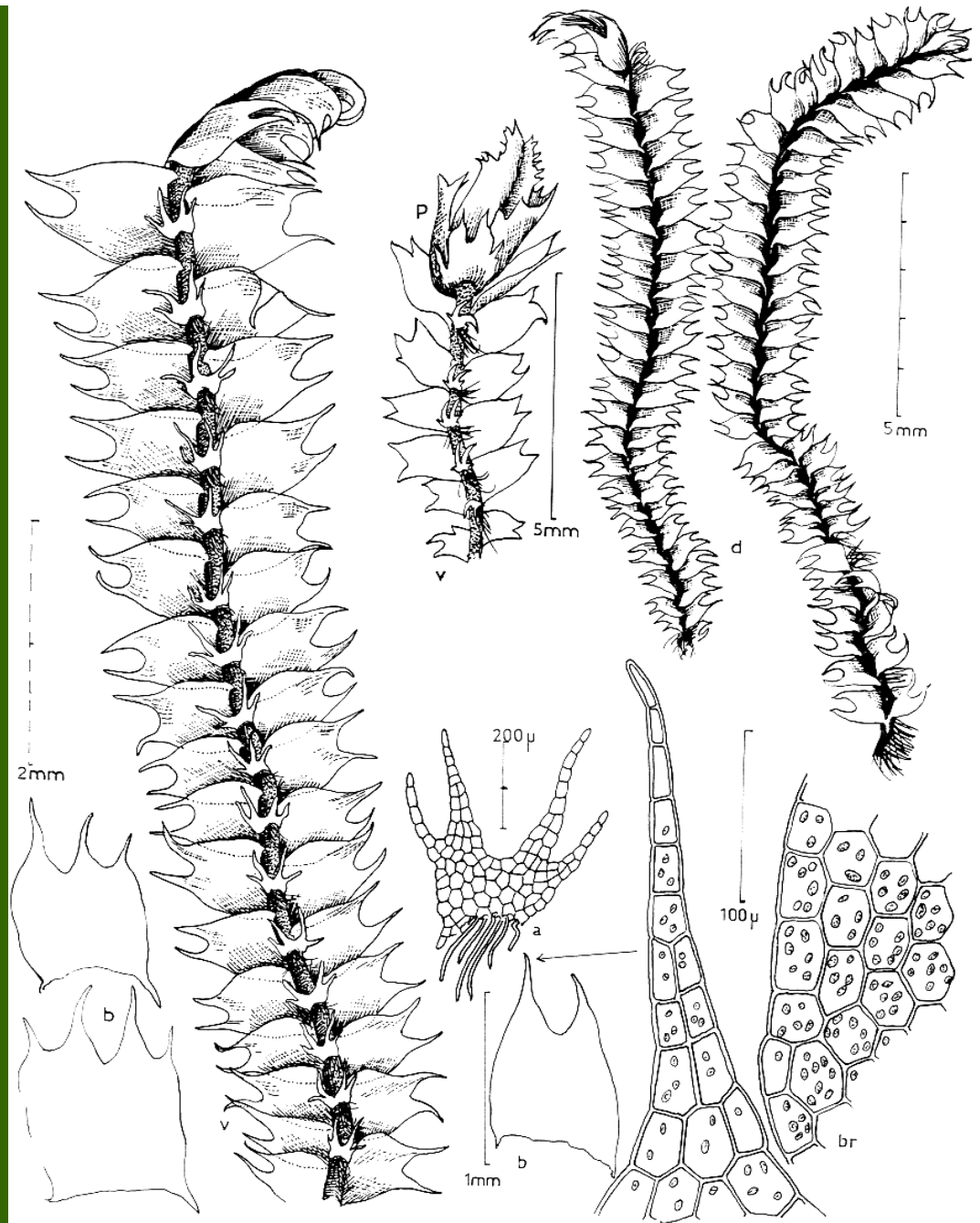
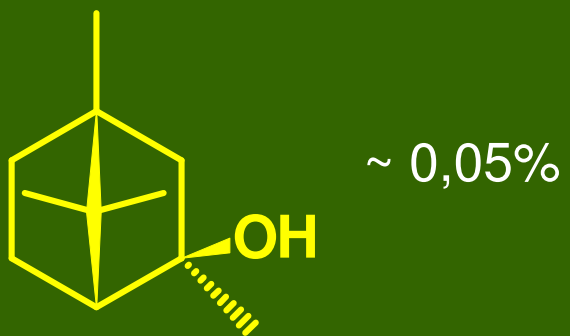
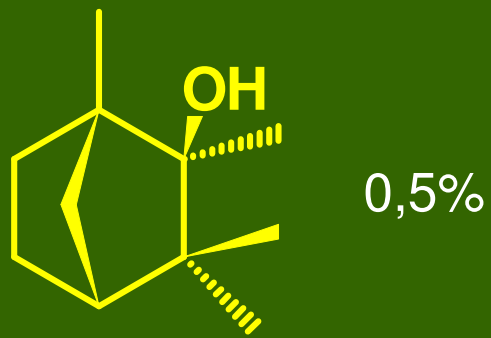
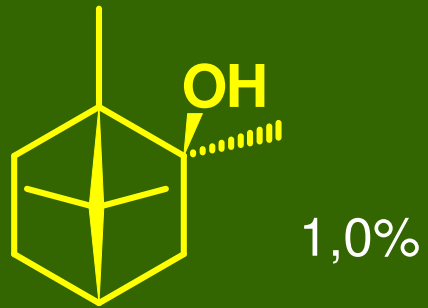
Structure
Natural Occurrence
CAS Registry Number
Retention Index on non-polar Stationary Phase
Stereochemical Information
¹H-NMR-/¹³C-NMR Data
Mass Spectra
Reference(s)

of **over 300 compounds** in one volume.

More information in the Internet:

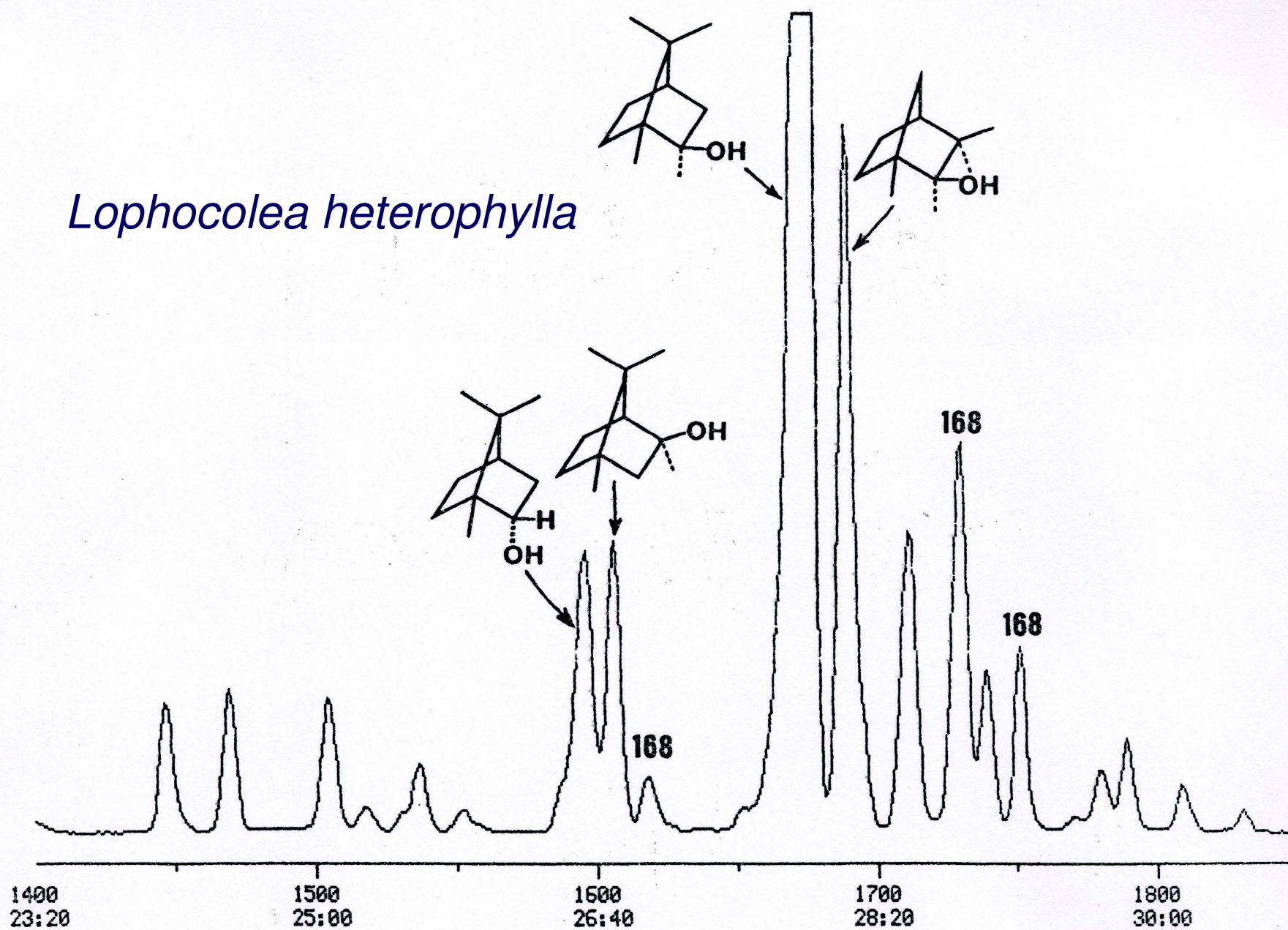
www.chemie.uni-hamburg.de/oc/koenig/welcome.html
and www.ebverlag.de



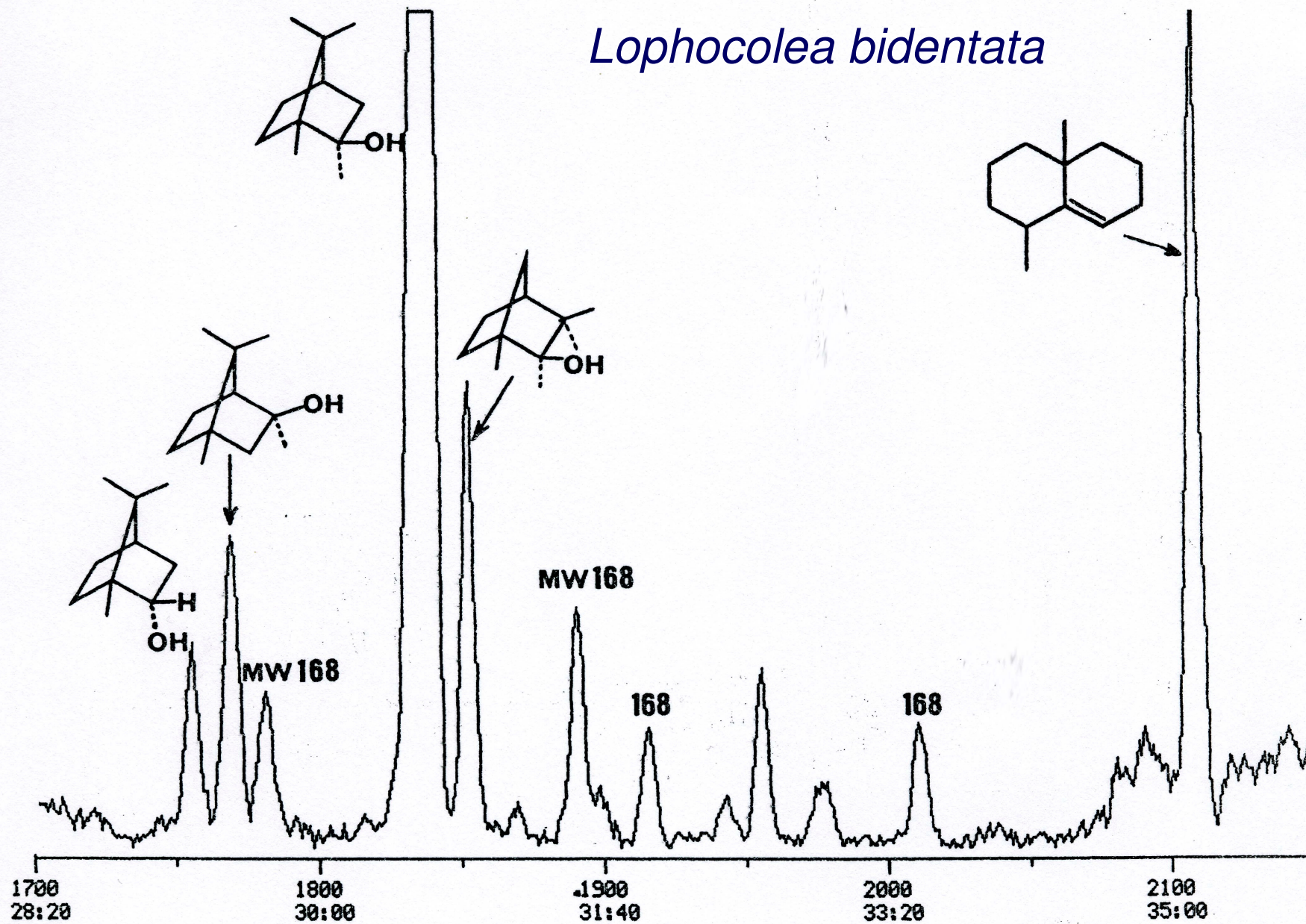


Afbeelding 68 *Lophocolea bidentata* (L.) Dum. var. *bidentata*
drie- en viertoppige bladeren uit materiaal van de Ankeveense plassen.

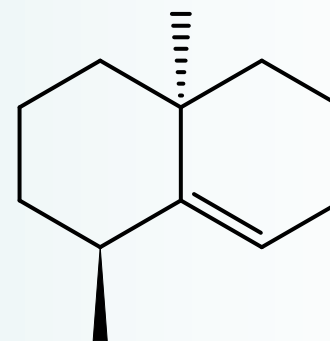
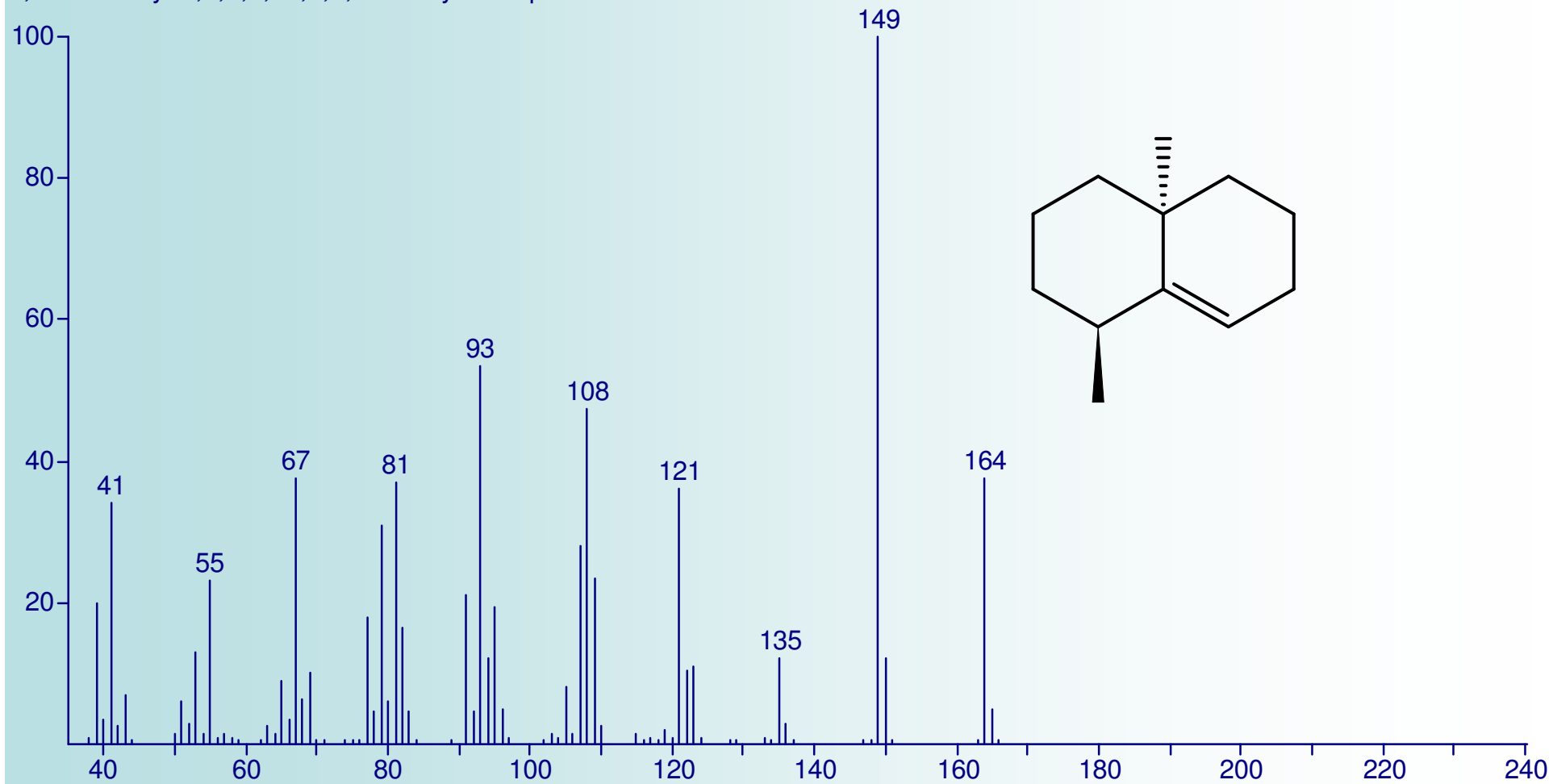
Lophocolea heterophylla

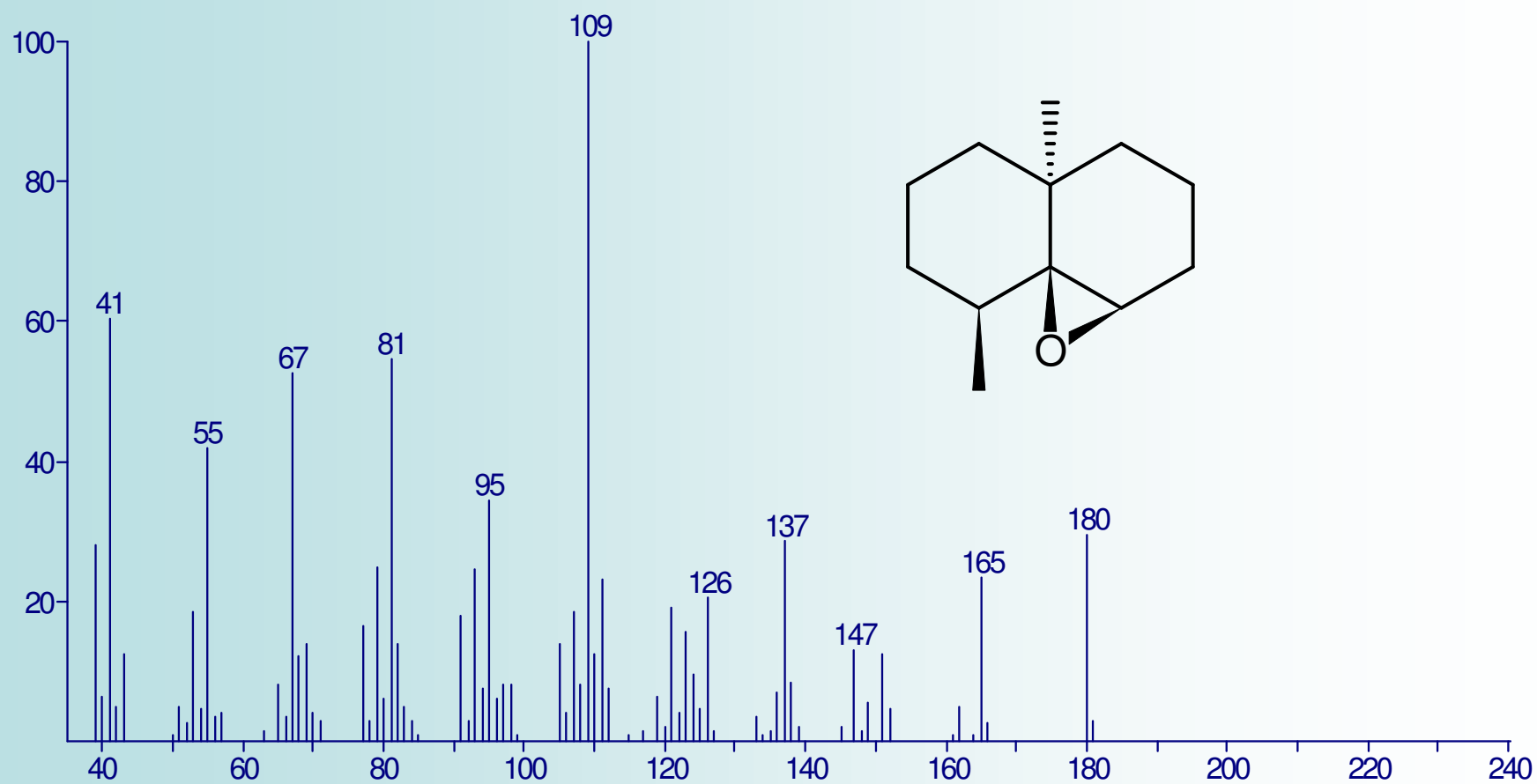


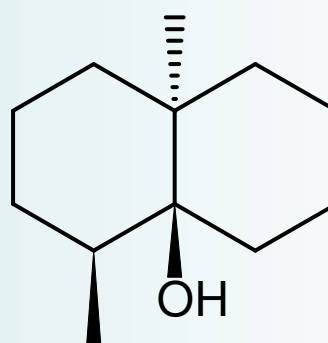
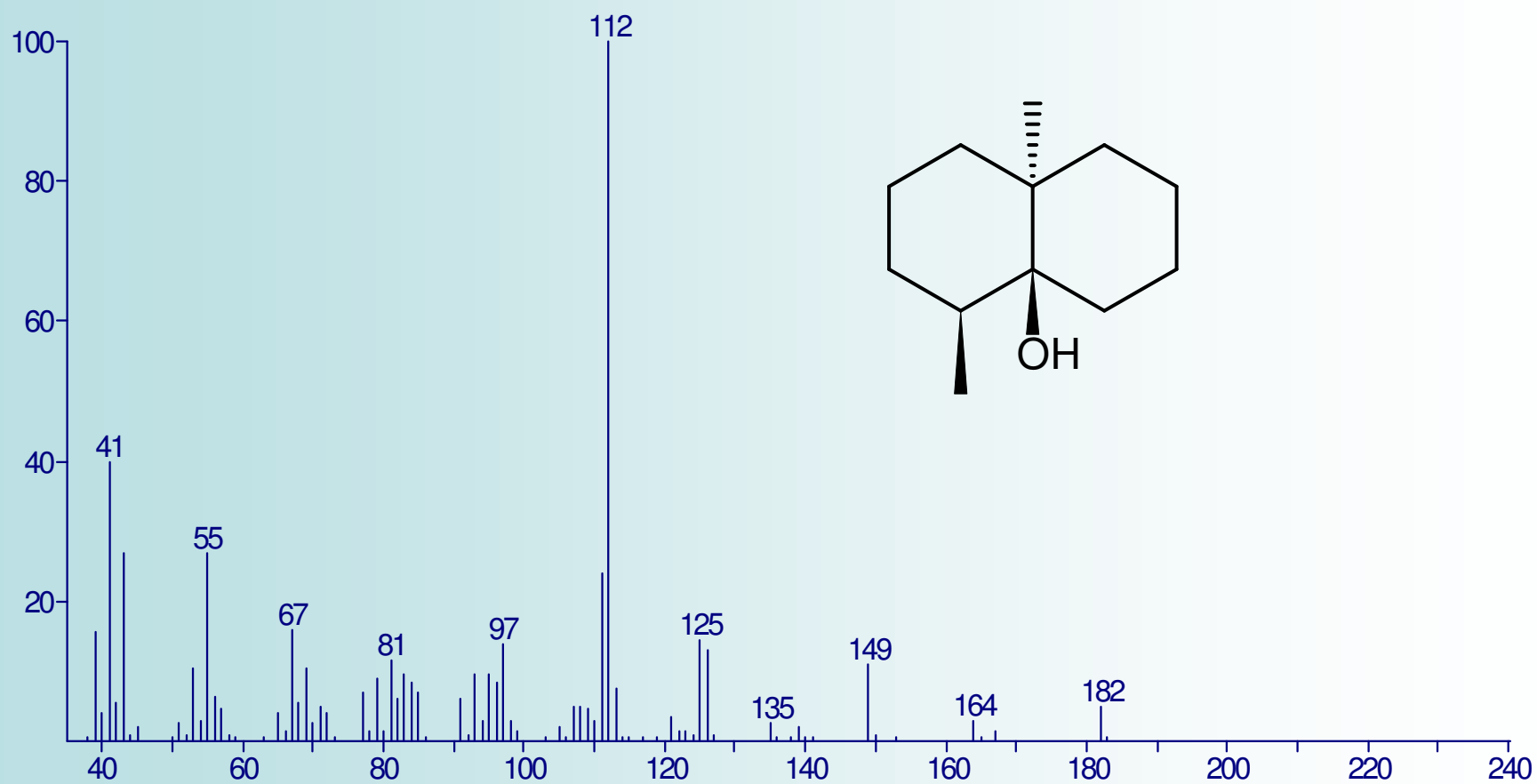
Lophocolea bidentata

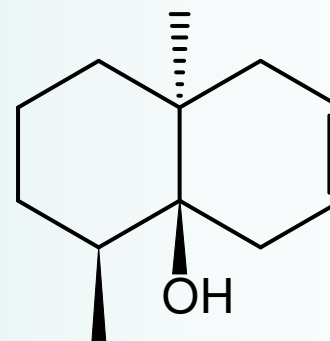
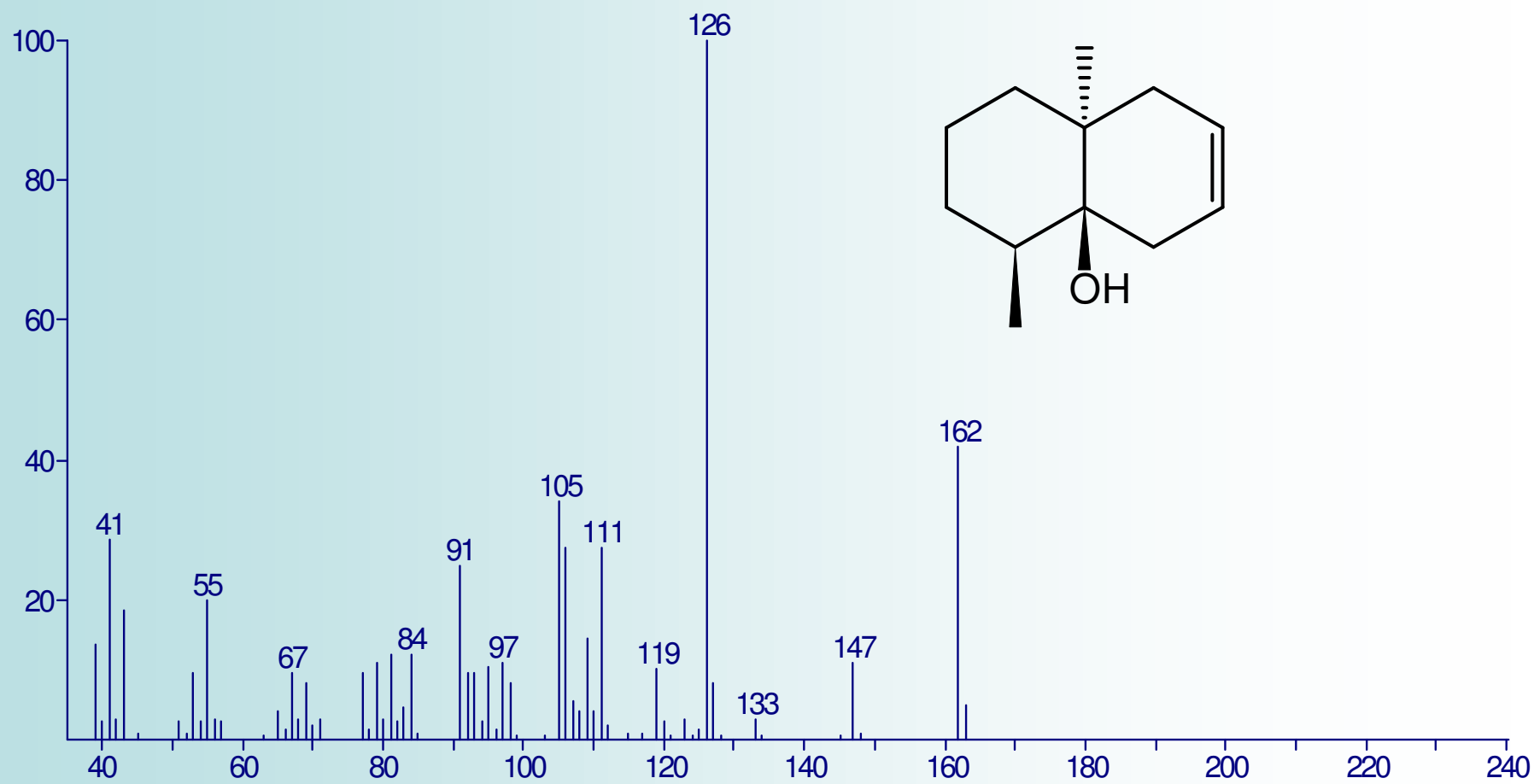


1,4a-Dimethyl-1,2,3,4,4a,5,6,7-octahydro-naphthalene

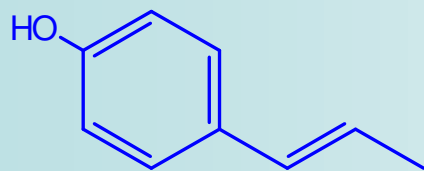




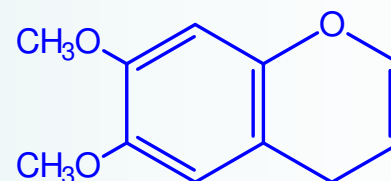
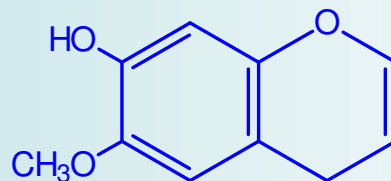
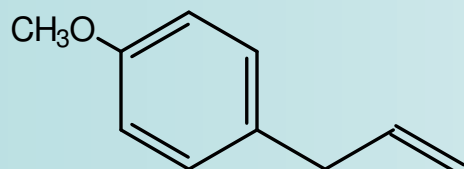
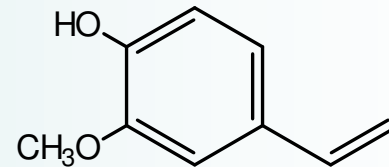
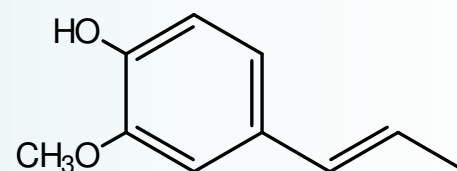
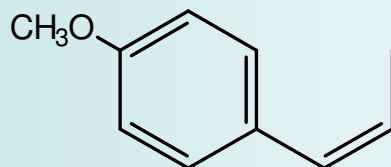
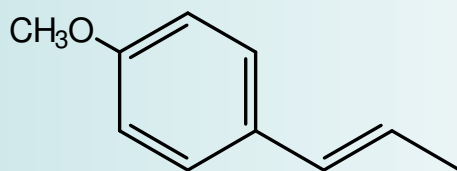
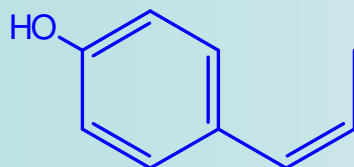




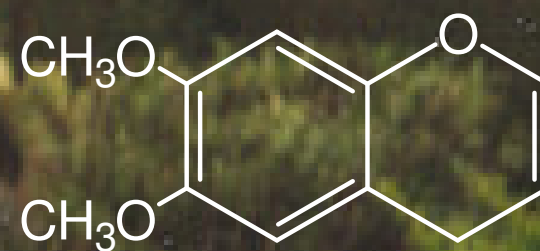
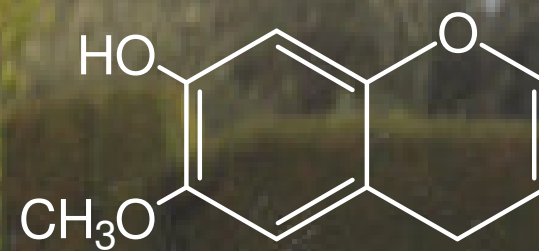
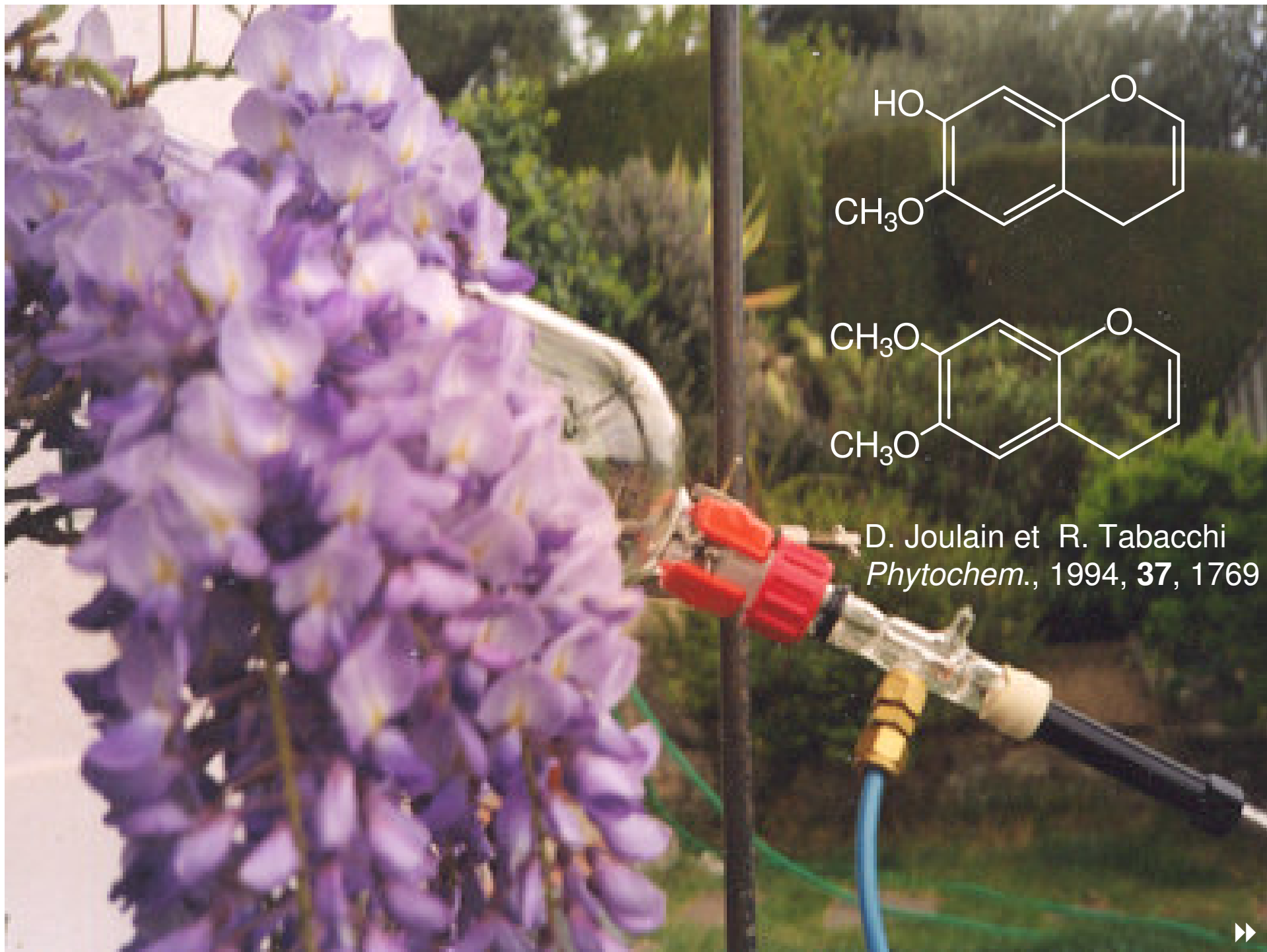
Phénylpropanoïdes de la glycine (*Wisteria sinensis*)



2,2%

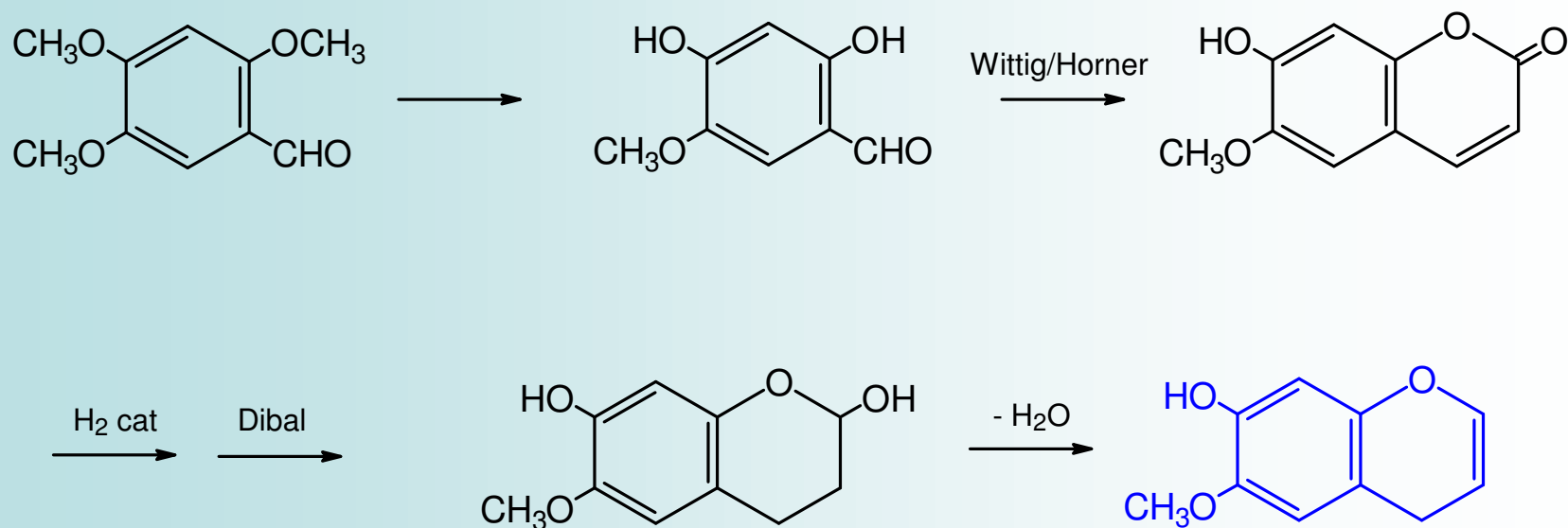


D. Joulain, 16th ISEO, Holzminden (1985)



D. Joulain et R. Tabacchi
Phytochem., 1994, **37**, 1769

Synthèse du 6-méthoxy-4*H*-1-benzopyran-7-ol



J. Demittenaere *et al.*, *Tetrahedron*, 2002, **58**, 2163

HAWAII



Moloka'i

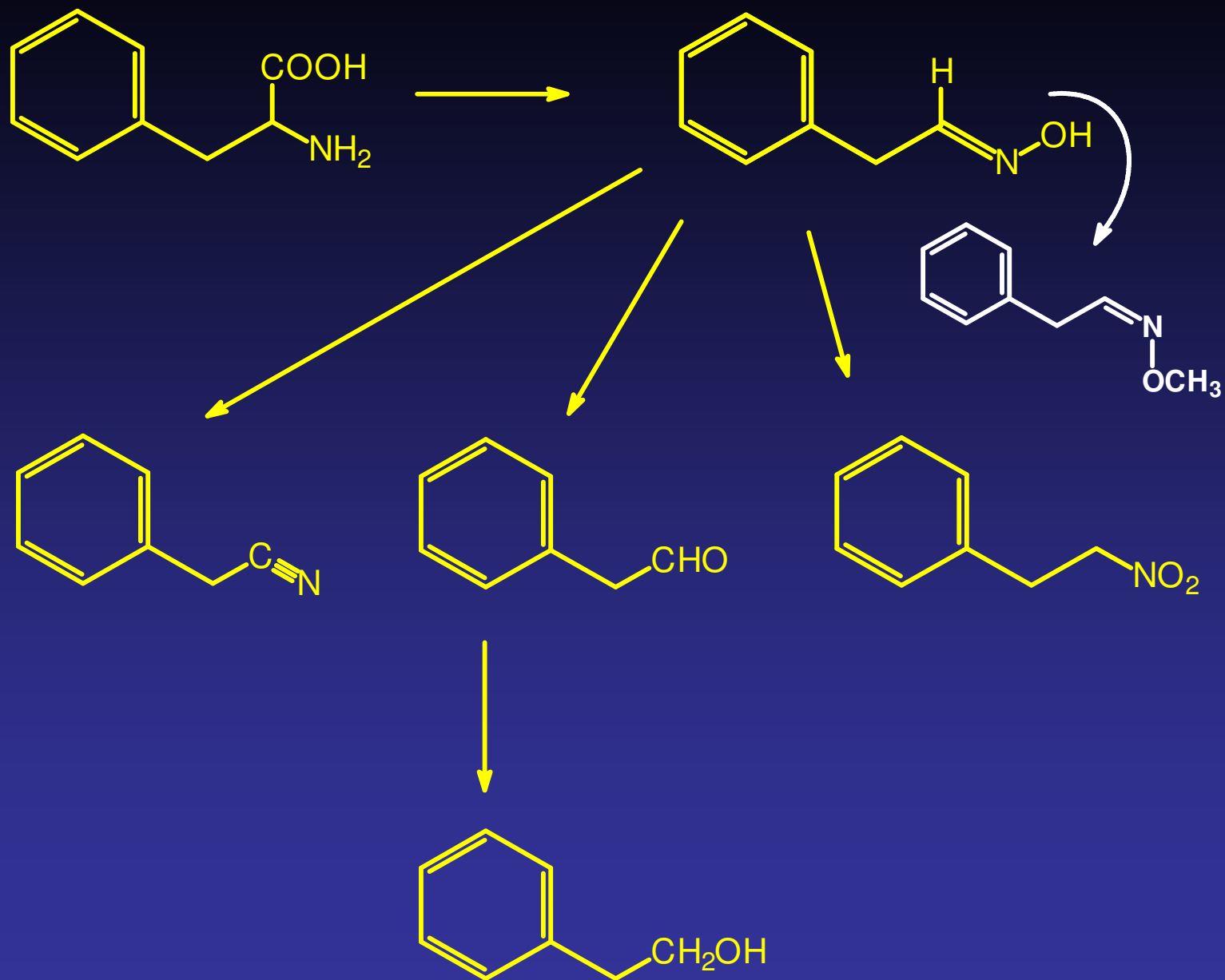






Plumeria rubra forma *acutifolia*







Intense Rainbow





Pauahi Alii

Pouahi Alii

2-phényléthanol	+++++
géraniol	+++

phénylacétonitrile	+
phénylacétaldoxime	+

benzoate de méthyle	+
salicylate de méthyle	+

cinnamate de méthyle	++
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Intense Rainbow

2-phényléthanol	+++++
géraniol	+
linalol	++

phénylacétonitrile	+
phénylacétaldoxime	+



Kimi Moragne