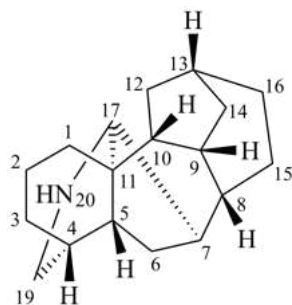


***Nomenclature of Organic Chemistry. IUPAC Recommendations
and Preferred Names 2013.***

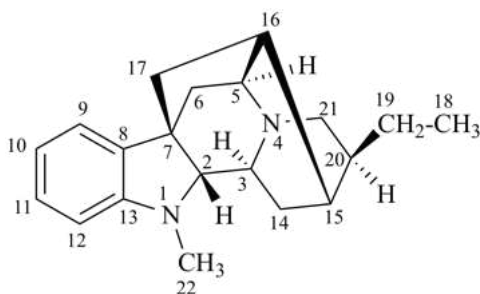
Prepared for publication by Henri A. Favre and Warren H. Powell,
Royal Society of Chemistry, ISBN 978-0-85404-182-4

**Appendix 3. STRUCTURES FOR ALKALOIDS, STEROIDS, TERPENOID, AND
SIMILAR COMPOUNDS**

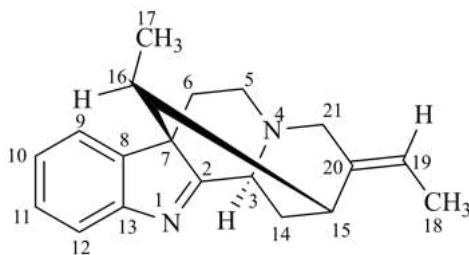
1. Alkaloids



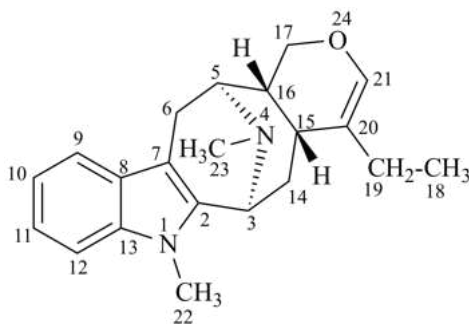
aconitane



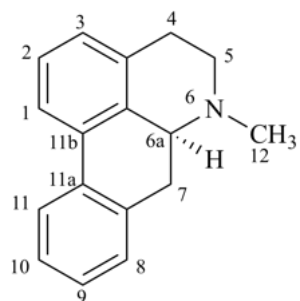
ajmalan



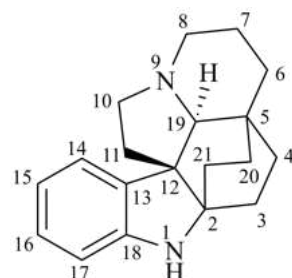
akuammilan
(named systematically by CAS)



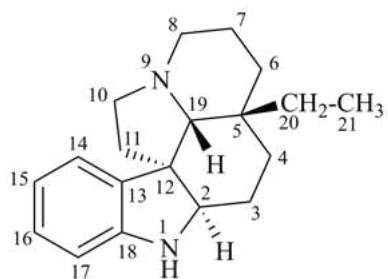
alstophyllan
(named systematically by CAS)



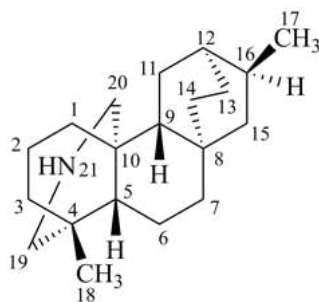
aporphine
(named systematically by CAS)



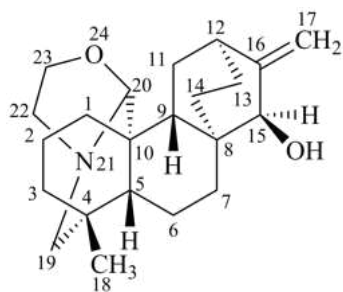
aspidofractinine
(named systematically by CAS)



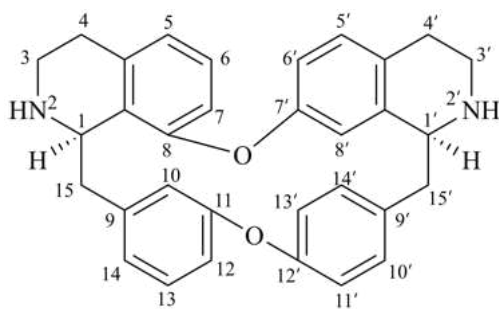
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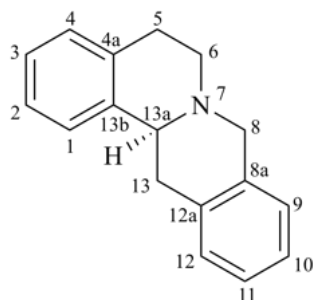
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(named systematically by CAS)



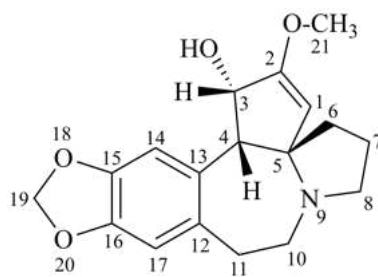
atisine
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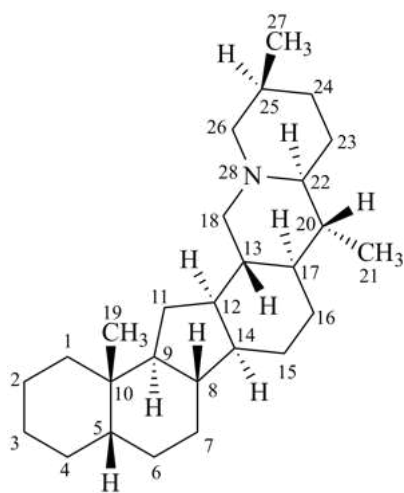
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(named systematically by CAS)



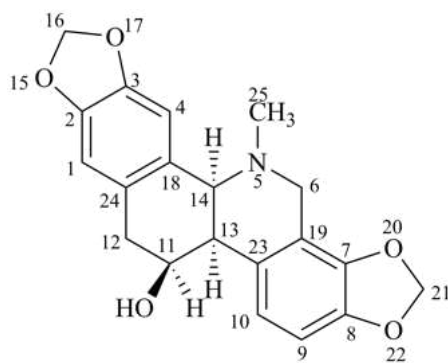
berbine
(named systematically by CAS)



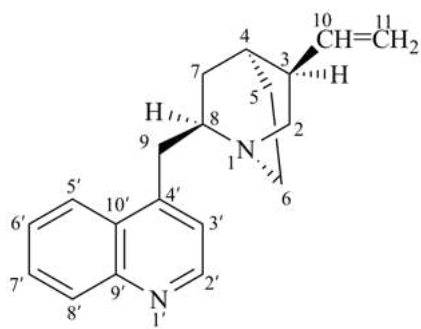
cephalotaxine



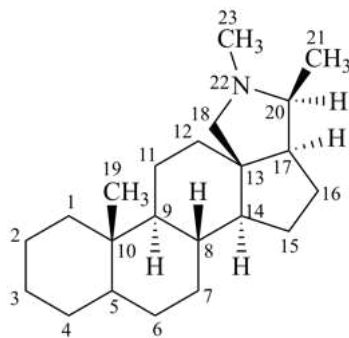
cevane



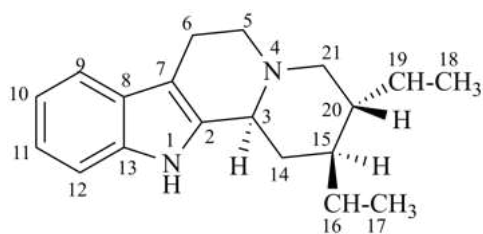
chelidonine
(named systematically by CAS)



cinchonan

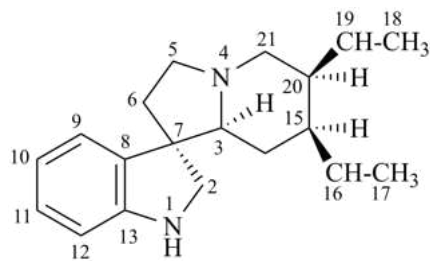


conanine



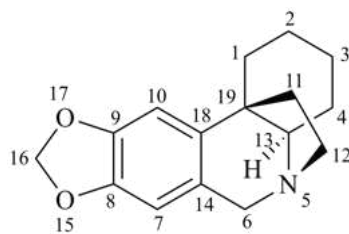
corynan

(named systematically by CAS)



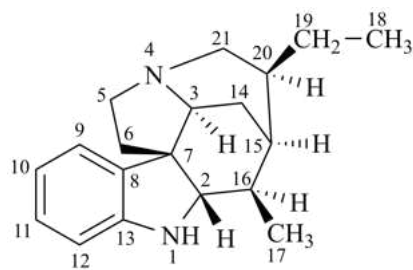
corynoxan

(named systematically by CAS)

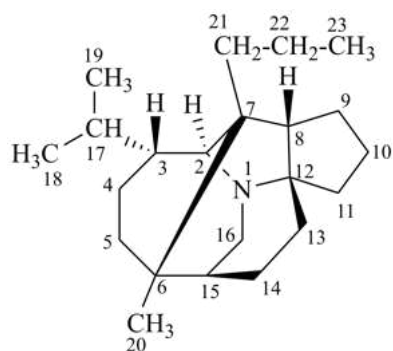


crinan

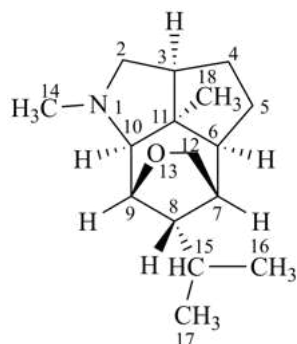
(named systematically by CAS)



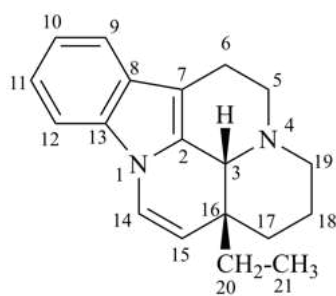
curan



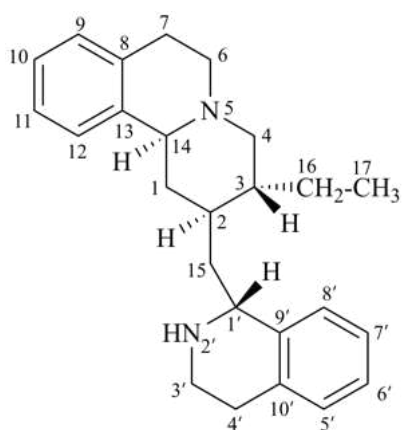
daphnane
(named systematically by CAS)



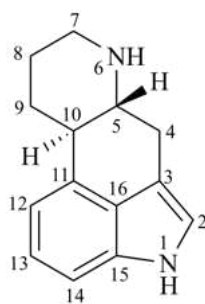
dendrobane
(named systematically by CAS)



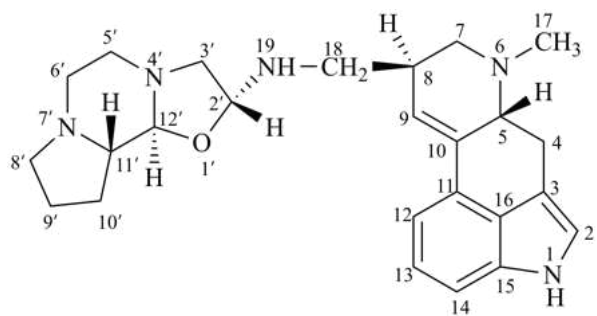
eburnamenine



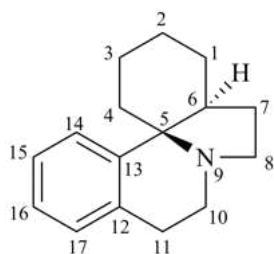
emetan
(named systematically by CAS)



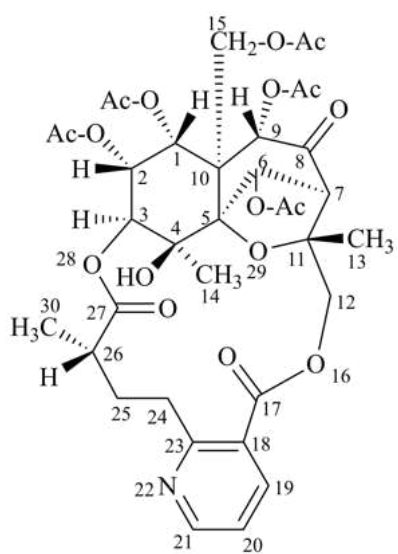
ergoline



ergotaman

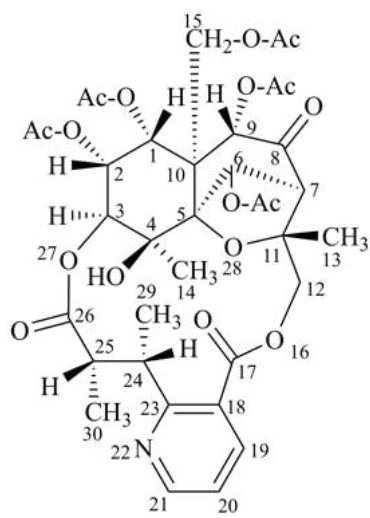


erythrinan



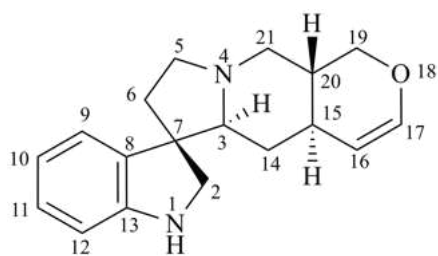
evonimine

(named systematically by CAS)

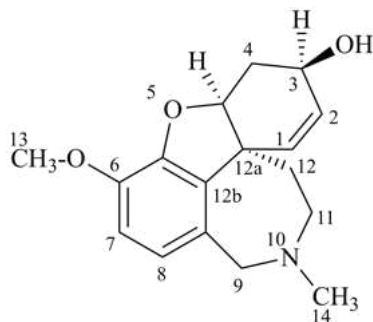


evonine

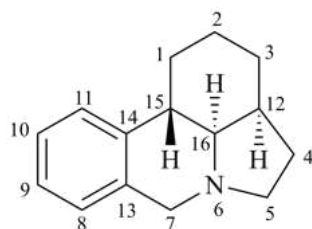
(named systematically by CAS)



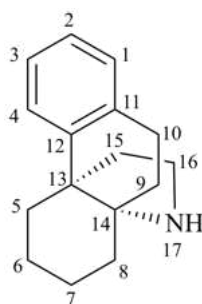
formosanan
(named systematically by CAS)



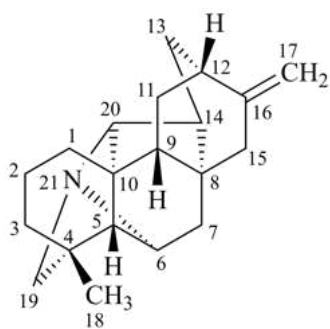
galanthamine
(named systematically by CAS)



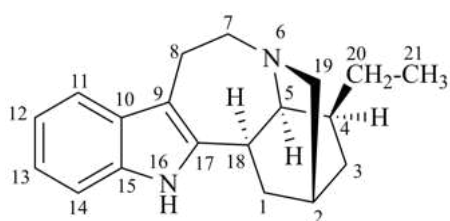
galanthan
(named systematically by CAS)



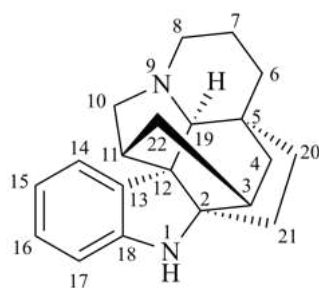
hasubanan



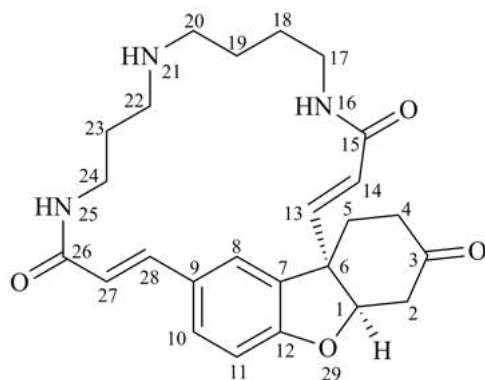
hetisan



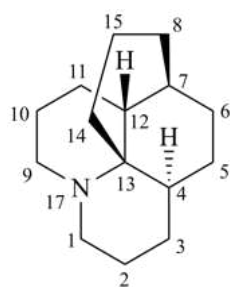
ibogamine



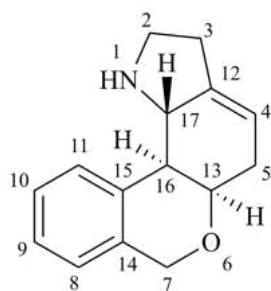
kopsan
(named systematically by CAS)



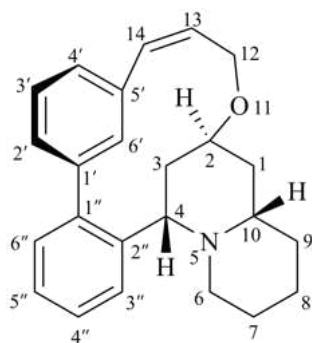
lunarine
(named systematically by CAS)



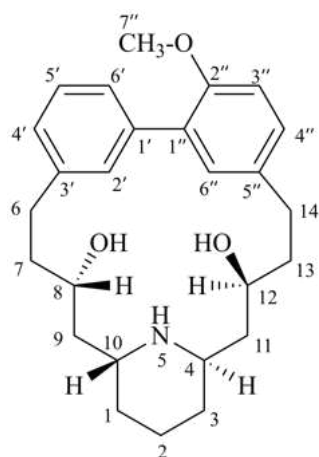
lycopodane
(named systematically by CAS)



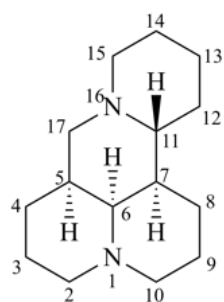
lycorenan
(named systematically by CAS)



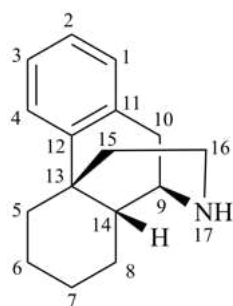
lythran
(named systematically by CAS)



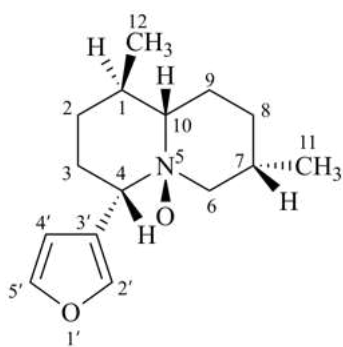
lythranidine
(named systematically by CAS)



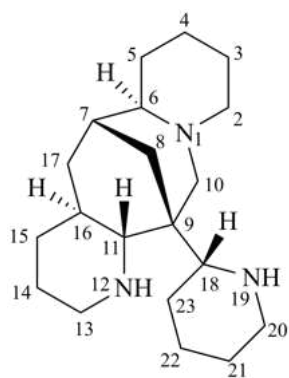
matridine
(named systematically by CAS)



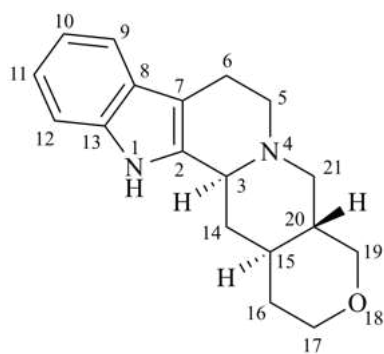
morphinan



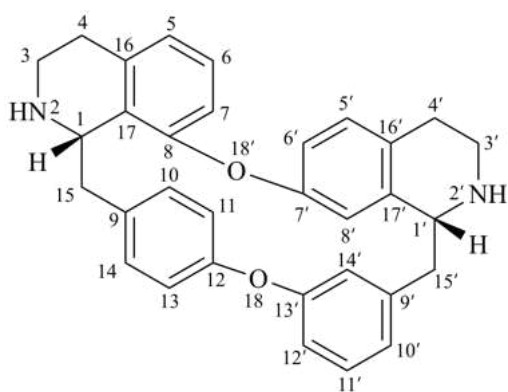
nupharidine
(named systematically by CAS)



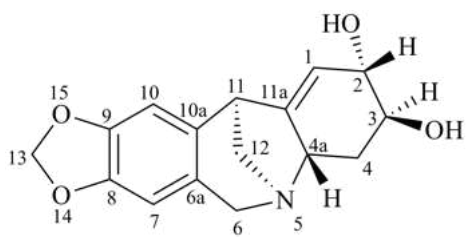
ormosanine
(named systematically by CAS)



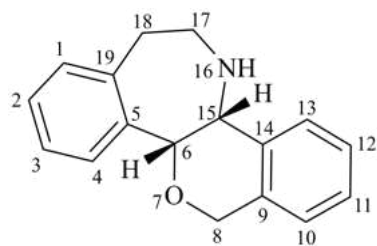
18-oxayohimban



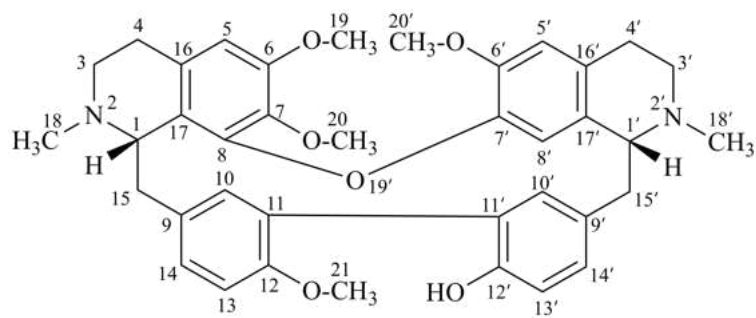
oxyacanthan
(named systematically by CAS)



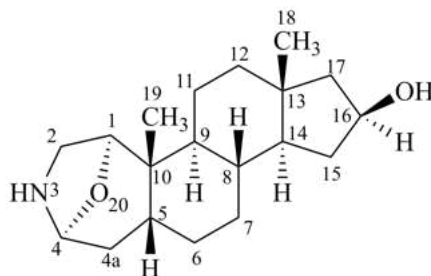
pancracine
(named systematically by CAS)



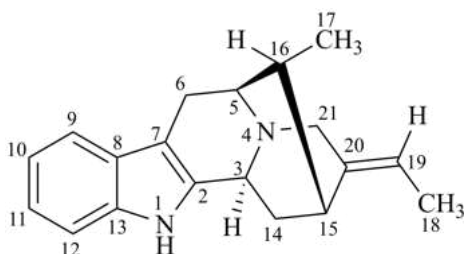
rheadan
(named systematically by CAS)



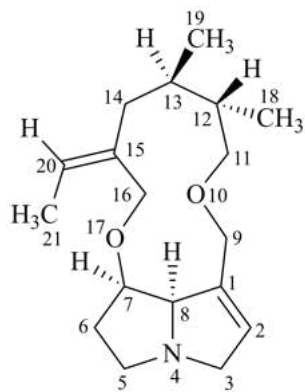
rodiasine
(named systematically by CAS)



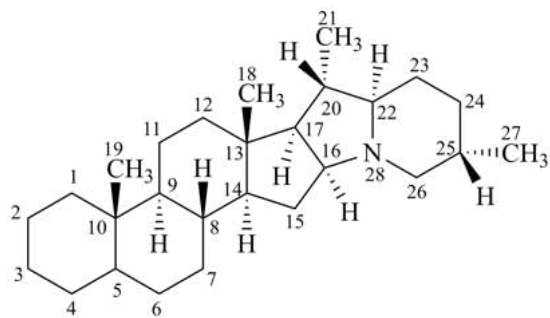
samandarine
(named systematically by CAS)



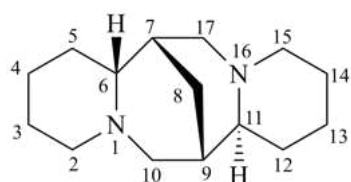
sarpagan



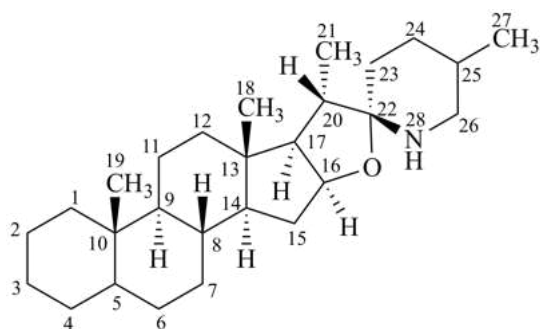
senecionan
(named systematically by CAS)



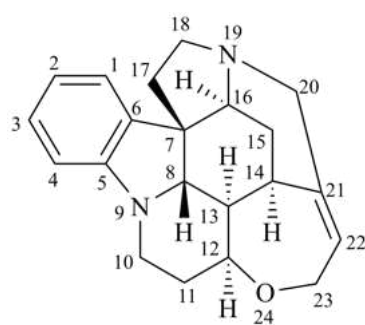
solanidane
(the CAS name requires the chirality at C-22 to be specified)



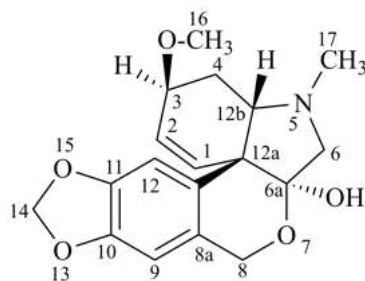
sparteine
(named systematically by CAS)



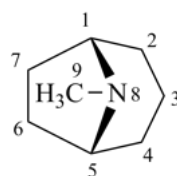
spirosolane
(the CAS name requires the chirality at C-22 to be specified)



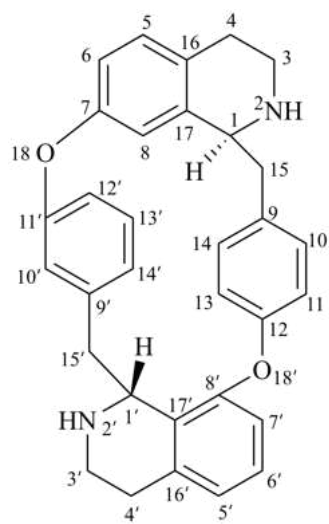
strychnidine



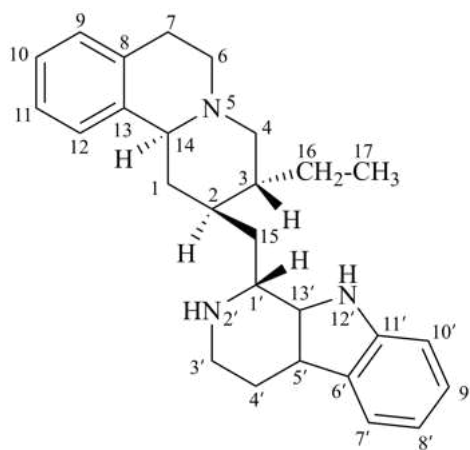
tazettine
(named systematically by CAS)



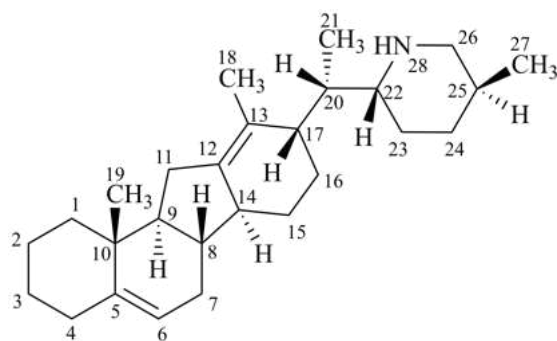
tropane
(named systematically by CAS)



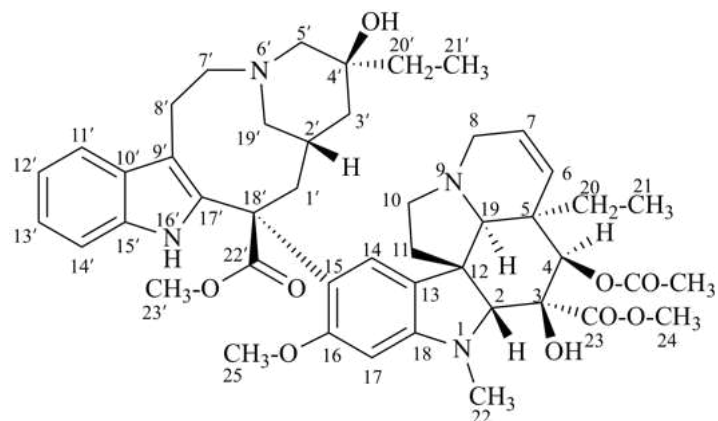
tubocuraran
(named systematically by CAS)



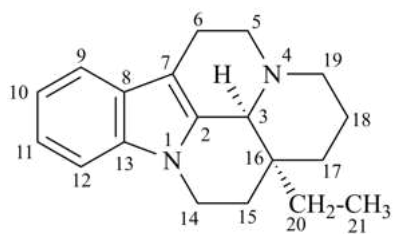
tubulosan
(named systematically by CAS)



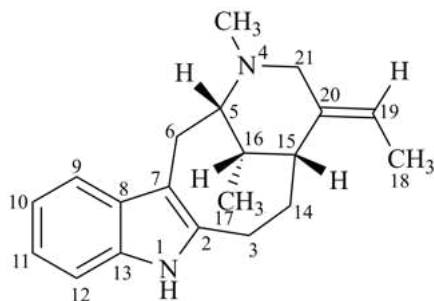
veratraman
(named systematically by CAS)



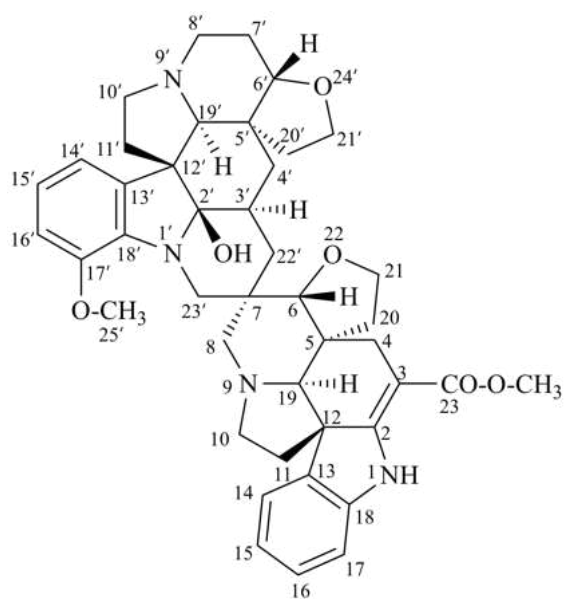
vincalukoblastine



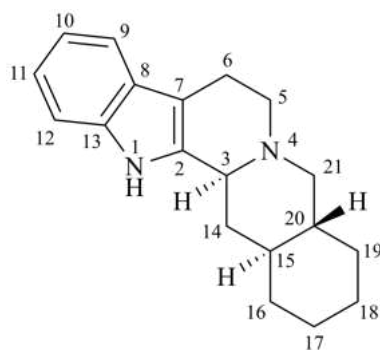
vincane
(CAS name based on eburnamenine)



vobasan

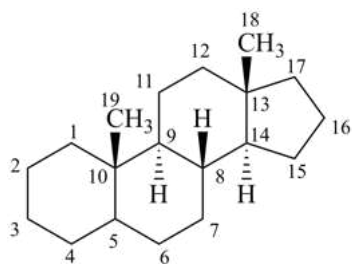


vobtusine
(named systematically by CAS)

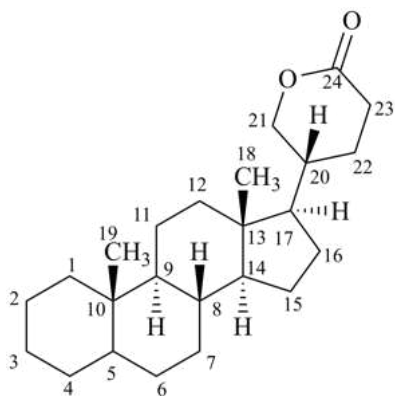


yohimban

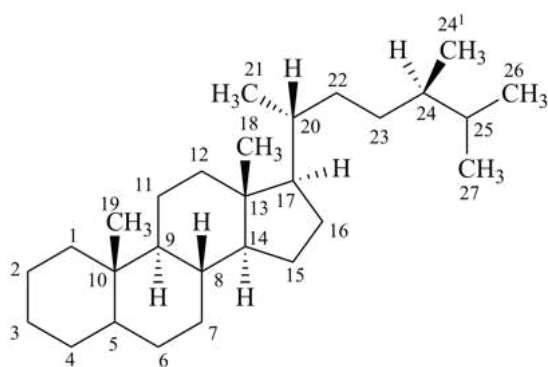
2. Steroids



androstane

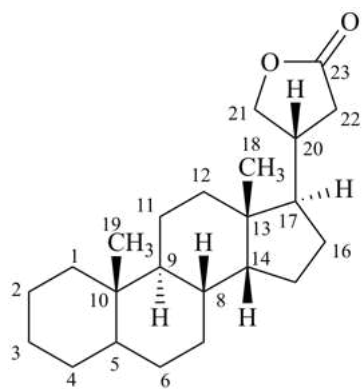


bufanolide

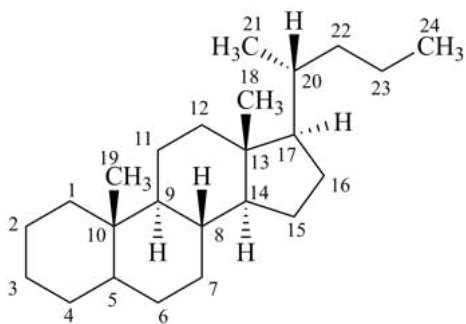


campestanol

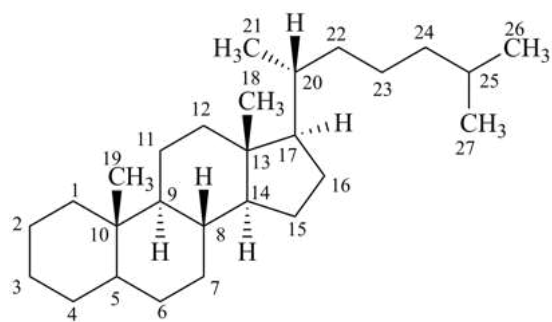
(named by CAS as a stereoisomer of ergostane in which the locant 24¹ is 28)



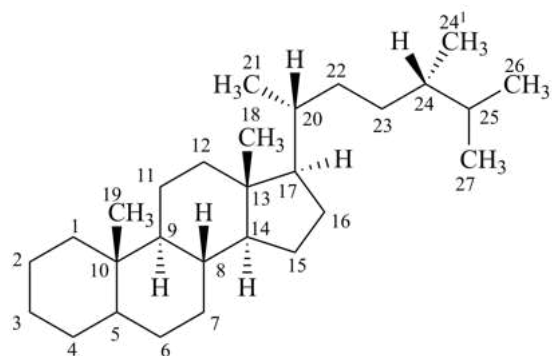
cardanolide



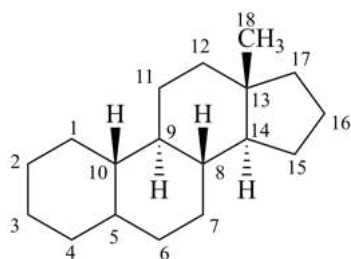
cholane



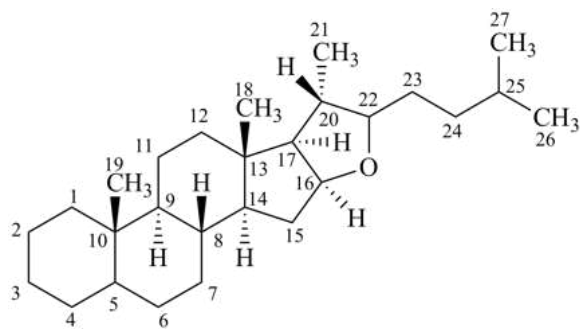
cholestane



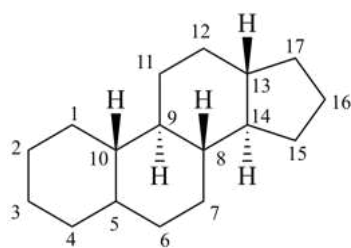
ergostane



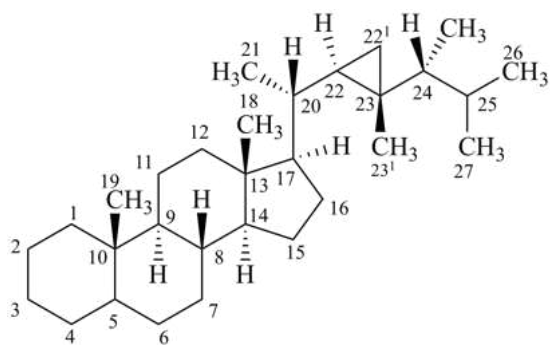
estrane



furostan

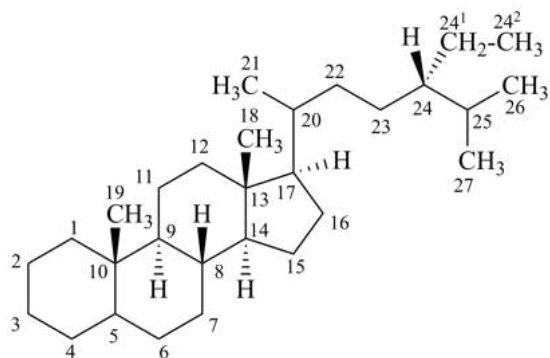


gonane



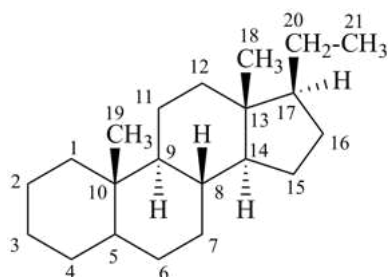
gorgostane

(for CAS the locants 22¹, 23¹, and 24¹ are 34, 33, and 28, respectively)

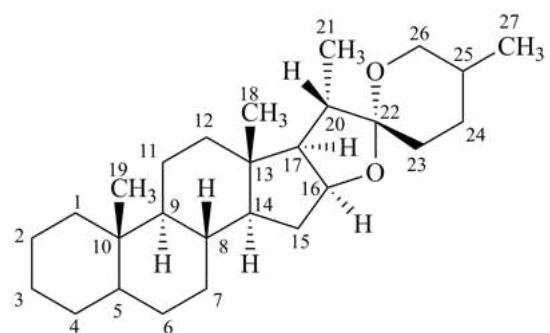


poriferastane

(named by CAS as a stereoisomer of stigmastane in which the locants 24¹ and 24² are 28 and 29, respectively.)

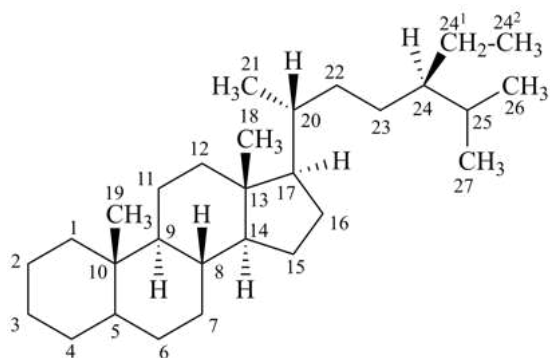


pregnane



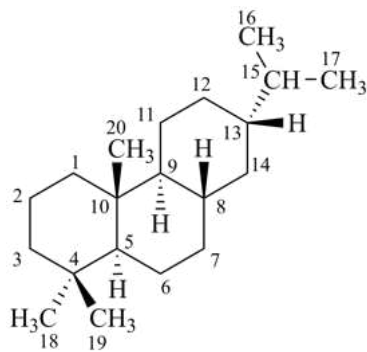
spirostan

(the CAS name requires the chirality at C-22 to be specified)

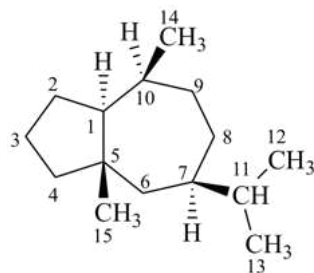


stigmastane

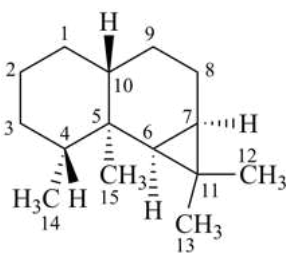
3. Terpenoids



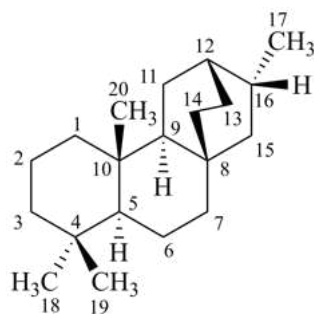
abietane
(named systematically by CAS)



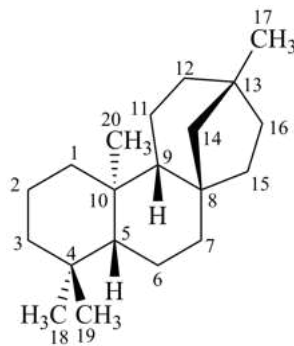
ambrosane
(named systematically by CAS)



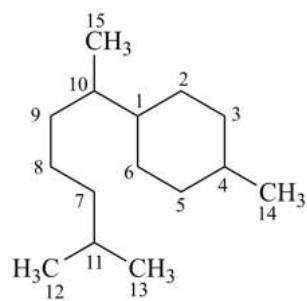
aristolane
(named systematically by CAS)



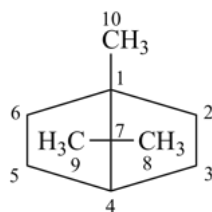
atisane



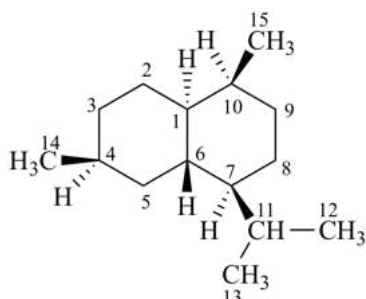
beyerane
(CAS name based on kaurane)



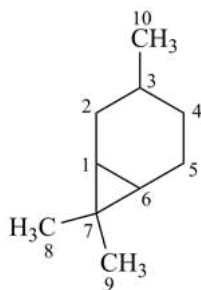
bisabolane
(named systematically by CAS)



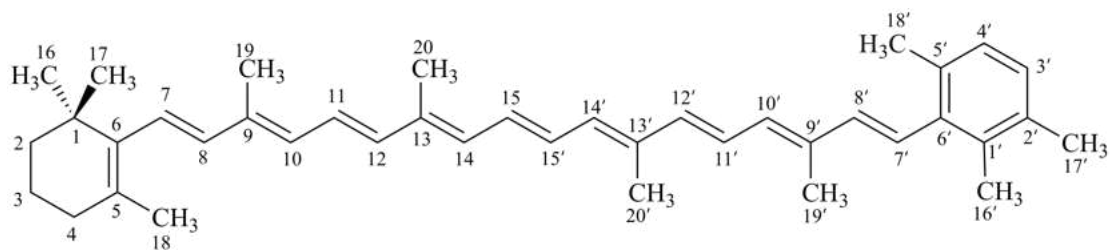
bornane
(named systematically by CAS)



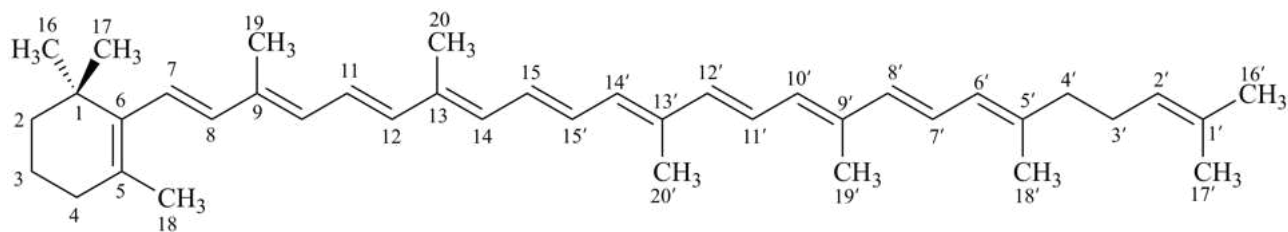
cadinane
(named systematically by CAS)



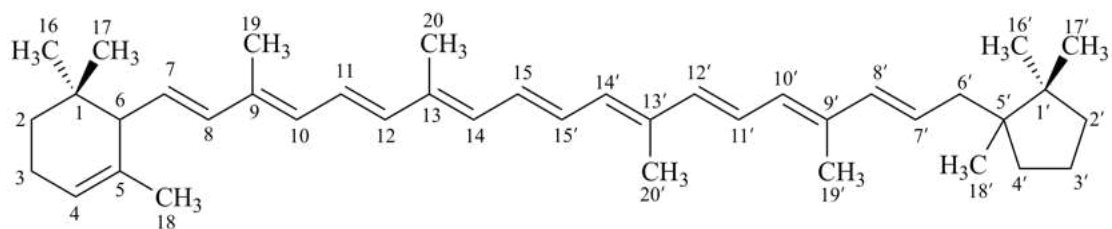
carane
(named systematically by CAS)



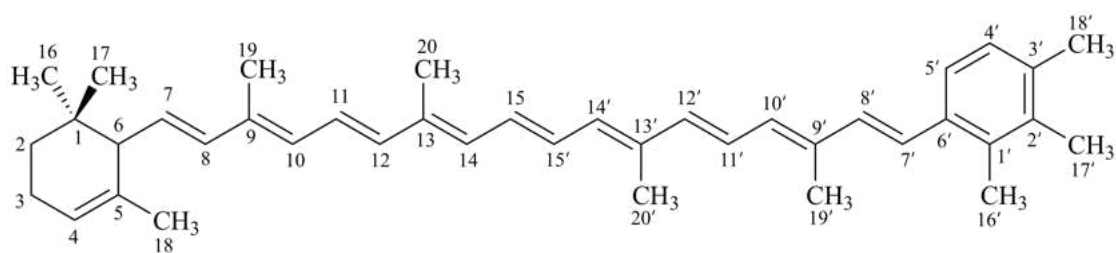
β,ϕ -carotene



β,ψ -carotene

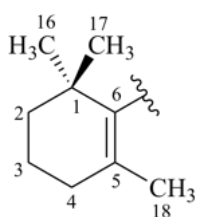


ε,κ-carotene

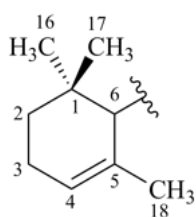


ε,χ-carotene

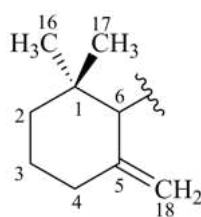
Note: There are 28 possible carotene parent structures of which four are illustrated above. The 28 are derived from all permutations of the following seven end groups:



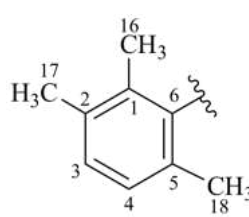
β (beta)



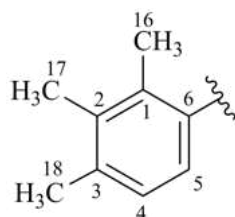
ε (epsilon)



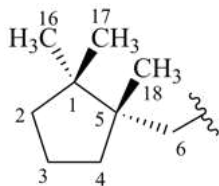
γ (gamma)



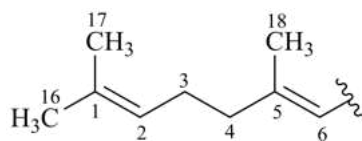
φ (phi)



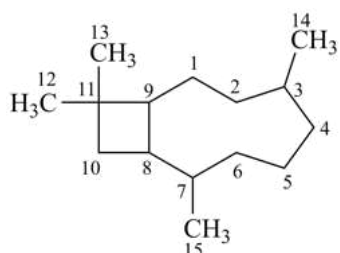
χ (chi)



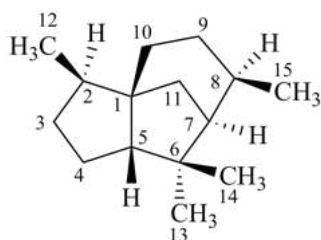
κ (kappa)



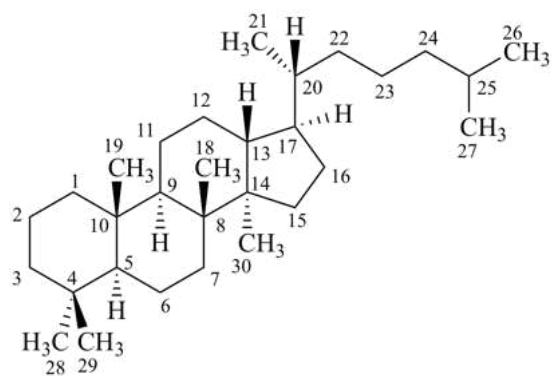
ψ (psi)



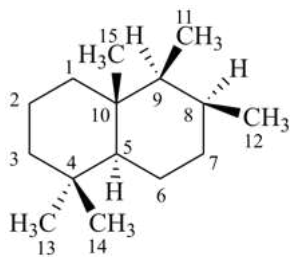
caryophyllane
(named systematically by CAS)



cedrane
(named systematically by CAS)

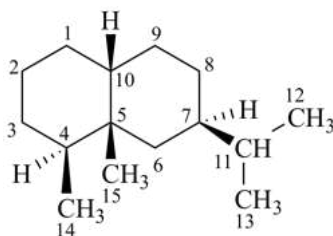


dammarane



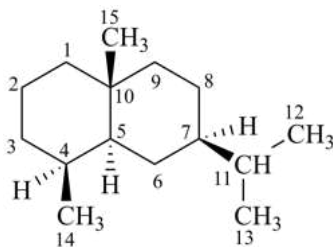
drimane

(named systematically by CAS)



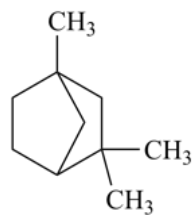
eremophilane

(named systematically by CAS)



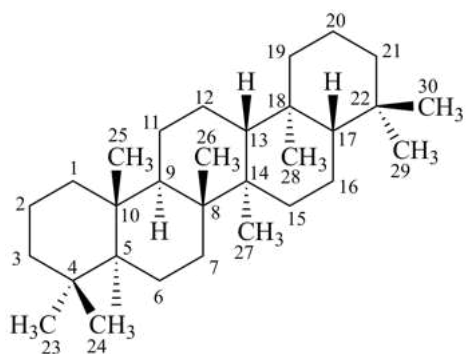
eudesmane

(named systematically by CAS)

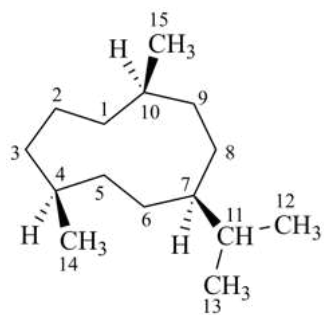


fenchane

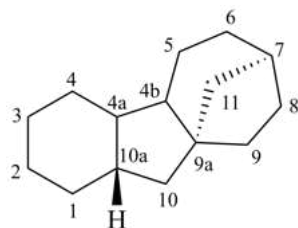
(named systematically by CAS)



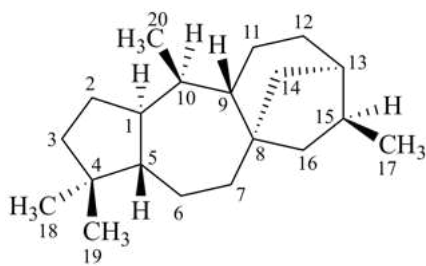
gammacerane



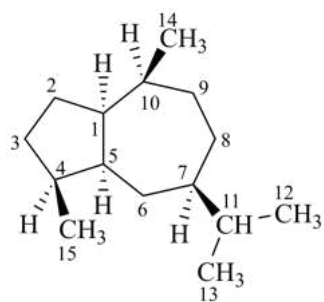
germacrane
(named systematically by CAS)



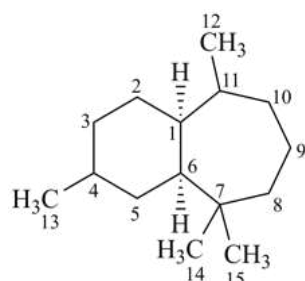
gibbane



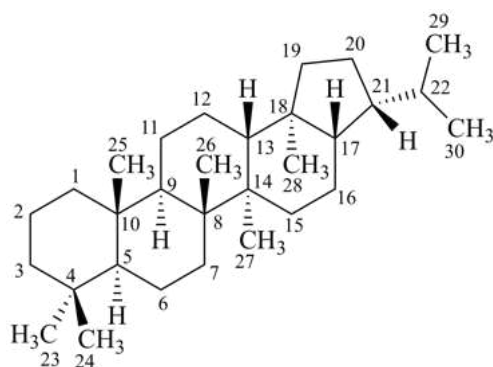
grayanotoxane



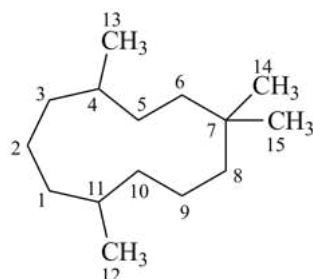
guaiane
(named systematically by CAS)



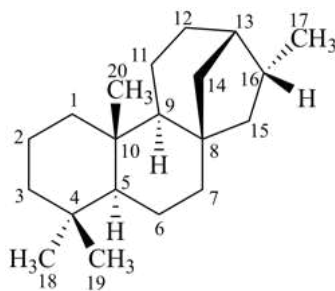
himachalane
(named systematically by CAS)



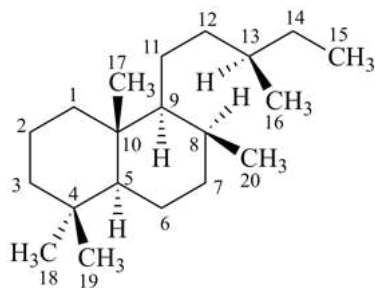
hopane
(CAS name based on gammacerane)



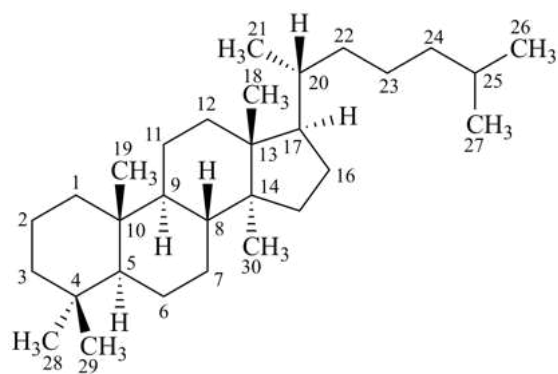
humulane
(named systematically by CAS)



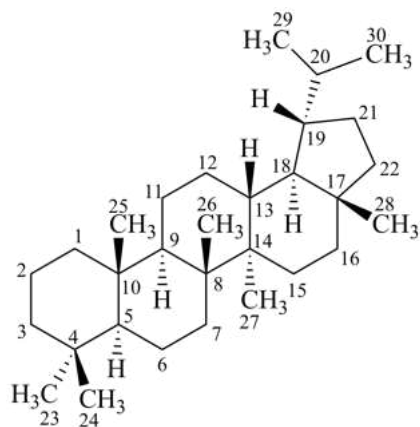
kaurane
(named by CAS *ent*-stereoisomer)



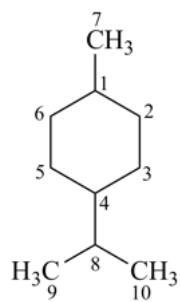
labdane
(named systematically by CAS)



lanostane

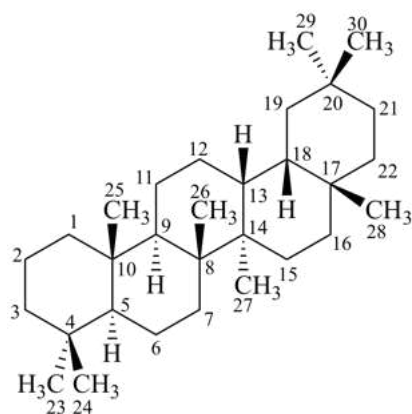


lupane

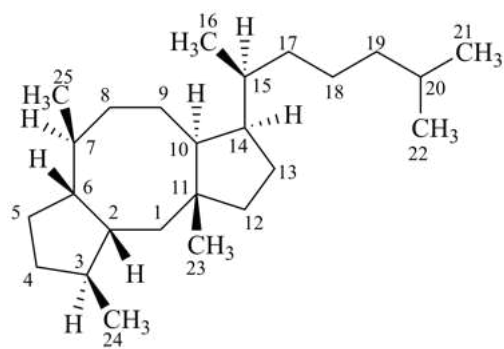


p-menthane

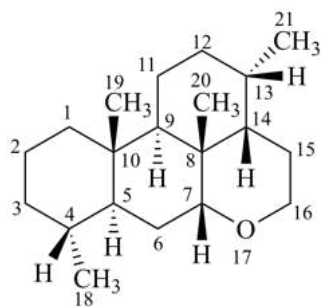
(named systematically by CAS)



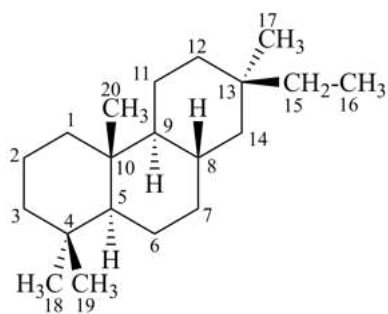
oleanane



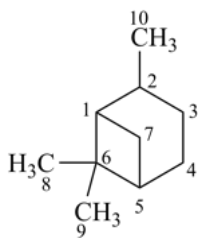
ophiobolane
(named systematically by CAS)



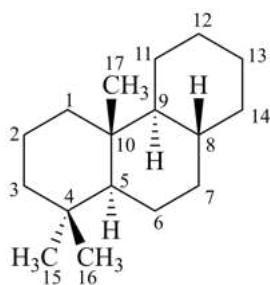
picrasane



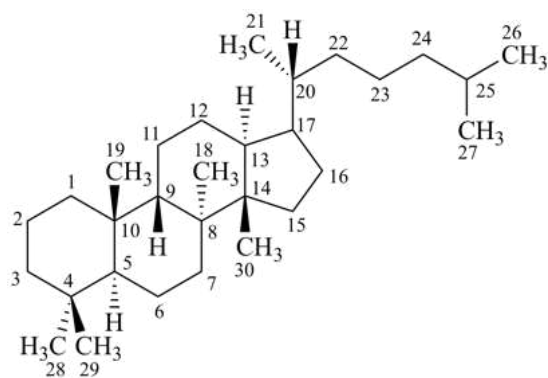
pimarane
(named systematically by CAS)



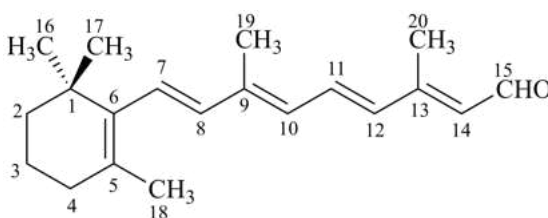
pinane
(named systematically by CAS)



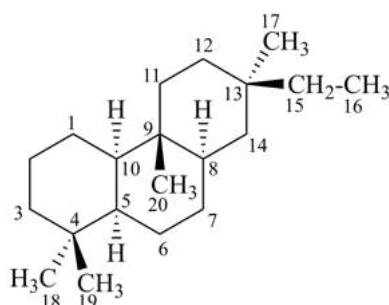
podocarpane
(named systematically by CAS)



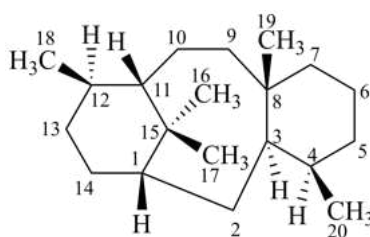
protostane
(named by CAS as a stereoisomer of dammarane)



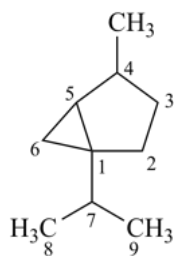
retinal



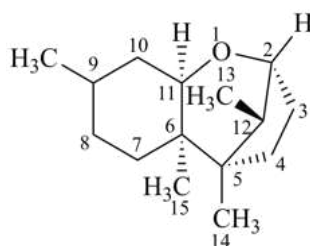
rosane
(named systematically by CAS)



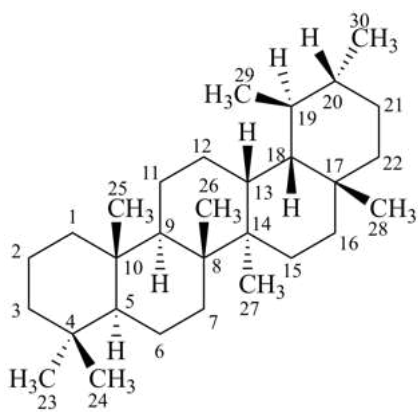
taxane
(named systematically by CAS)



thujane
(named systematically by CAS)

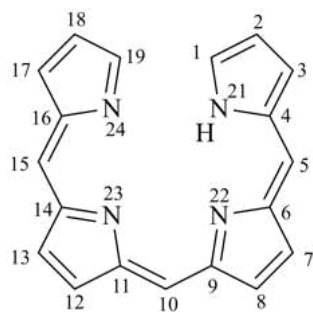


trichothecane

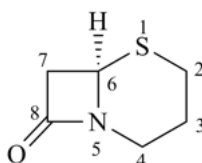


ursane

4. Miscellaneous

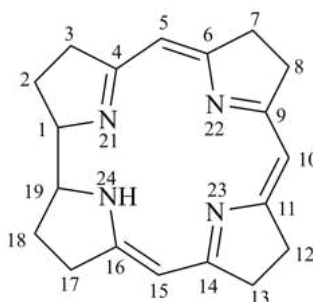


21*H*-bilane

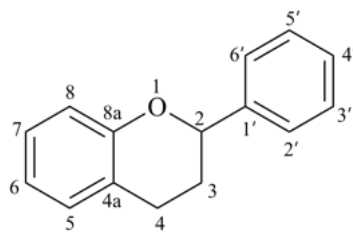


cepham

(named systematically by CAS)

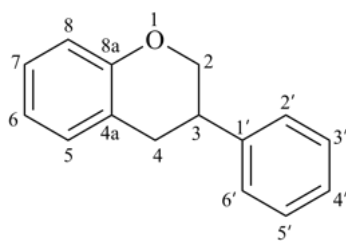


corrin

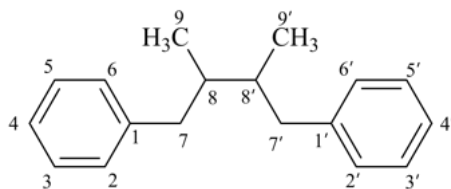


flavan

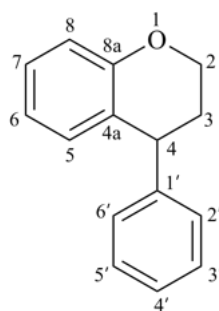
(named systematically by CAS)



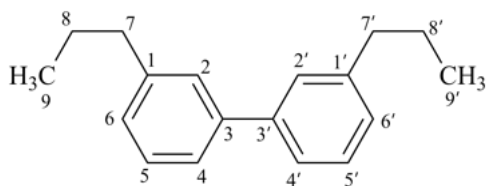
isoflavan
(named systematically by CAS)



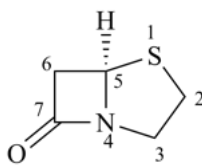
lignane
[only through a 8,8' (β,β') linkage]
(named systematically by CAS)



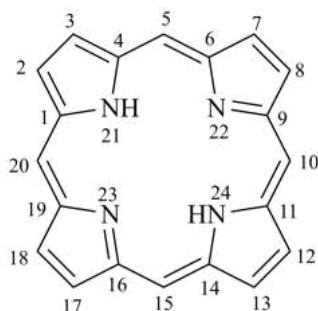
neoflavan
(named systematically by CAS)



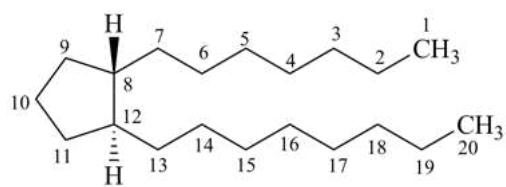
3,3'-neolignane
[and other structures not connected through a 8,8' (β,β') linkage]
(named systematically by CAS)



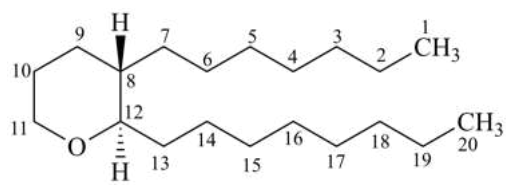
penam
(named systematically by CAS)



21*H*,23*H*-porphyrin
(named by CAS on the basis of the parent name porphine)



prostane



thromboxane
(named systematically by CAS)