

List of Semiochemicals (Pheromones, Allomones, and Gland Secretions) with Common Names

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The semiochemicals are broadly classified into three groups: terpenes, methyl-blanced chemicals, and others. Terpenes include acyclic, small-ring, large-ring, fused-ring, and heterocyclic compounds. Methyl-blanced chemicals are grouped into hydrocarbons and their derivatives, primary alcohols and their derivatives, secondary alcohols and their esters, ketones, acids and their derivatives, and ring compounds. Others include acyclic compounds, true alkaloids, aromatic compounds, and ring compounds.

The size of each molecule is expressed as the total number of carbon atoms and the number of carbon atoms in a straight chain or ring. Substructures bonded *via* oxygen or nitrogen atoms within the molecule are represented by +.

The arthropod semiochemicals have been identified from the following orders of Insecta, [Arachnida], {Diplopoda}, and (Chilopoda): Coleoptera, Collembola, Dictyoptera, Diptera, Heteroptera, Homoptera, Hymenoptera, Isoptera, Lepidoptera, Mantidae, Neuroptera, Orthoptera, Phasmatodea, Strepsiptera, Trichoptera, Thysanoptera, [Araneae], [Astigmata], [Ixodida], [Mesostigmata], [Prostigmata], [Opiliones], [Oribatida], [Thelyphonida], {Callipodida}, {Julida}, {Polyzoniida}, {Polydesmida}, {Spirobolida}, {Spirostreptida}, and (Geophilomorpha).

This table was created using the database, <https://lepipheromone.sakura.ne.jp/mepdb.html>.

Common name	Chemical group	Carbon skeleton	Insect order
A			
α -acaridial	Terpene: Acyclic	C10 (C8)	[Astigmata]
β -acaridial	Terpene: Acyclic	C10 (C8)	[Astigmata], Thysanoptera
γ -acaridial	Other: Aromatic	C8 (C6)	[Astigmata], [Oribatida]
α -acariolal	Terpene: Acyclic	C10 (C8)	[Astigmata]
β -acariolal	Terpene: Acyclic	C10 (C8)	[Astigmata]
α,α -acariolide	Terpene: Heterocyclic	C10 (C4)	[Astigmata], Hymenoptera

α,β -acariolide	Terpene: Heterocyclic	C10 (C4)	[Astigmata]
acetoin	Other: Acyclic	C4	Dictyoptera, Coleoptera, Lepidoptera
acetophenone	Other: Aromatic	C8 (C6)	Coleoptera, Trichoptera, Orthoptera, [Opiliones]
acetylcholine	Other: Acyclic	C2 + C2	Lepidoptera
α -acoradiene	Terpene: Small ring	C15 (C6)	Coleoptera
actinidine	Other: True alkaloid	aro C10 (C8)	Coleoptera, Hymenoptera, Phasmatodea
adalinine	Other: True alkaloid	C13 (C5)	Coleoptera
adaline	Other: True alkaloid	C13 (C8)	Coleoptera
Z,Z,Z-allofarnesene	Terpene: Acyclic	C15 (C12)	Hymenoptera
o-aminoacetophenone	Other: Aromatic	C8 (C6)	Hymenoptera
amiteol	Terpene: Fused-ring	C15 (C10)	Isoptera
amitinol	Terpene: Acyclic	C10 (C8)	Coleoptera
anabaseine	Other: True alkaloid	aro C10 (C5)	Hymenoptera, [Opiliones]
anabasine	Other: True alkaloid	aro C10 (C5)	Hymenoptera
anastrephin	Terpene: Fused-ring	C12 (C8)	Diptera
ancistrodial	Terpene: Small ring	C15 (C6)	Isoptera
ancistrofuran	Terpene: Fused-ring	C15 (C8)	Isoptera
angelic acid	Me-bran.: Acid & deriv.	C5 (C4)	Coleoptera
anhydrosericornin	Me-bran.: Ring	C11 (C9)	Coleoptera
p-anisaldehyde	Other: Aromatic	C7 (C6) + C1	Neuroptera
anisole	Other: Aromatic	C6 + C1	Coleoptera
anisomorphal	Terpene: Small ring	C10 (C5)	Phasmatodea, Hymenoptera
anthranilic acid	Other: Aromatic	C7 (C6)	Coleoptera
aristolochene	Terpene: Fused-ring	C15 (C10)	Isoptera
aristolochic acid I	Other: Aromatic	C15 (C14) + C2	Lepidoptera
aristolochic acid II	Other: Aromatic	C15 (C14) + C1	Lepidoptera
arterenone	Other: Aromatic	C8 (C6)	Orthoptera, Diptera, Lepidoptera, Dictyoptera
azelaic acid	Other: Acyclic	C9	Coleoptera

B

benzoyl cyanide	Other: Aromatic	C8 (C6)	(Geophilomorpha), {Polydesmida}
benzyl cyanide	Other: Aromatic	C8 (C6)	Orthoptera, Lepidoptera, (Geophilomorpha)
bergamotenal	Terpene: Fused-ring	C15 (C7)	Heteroptera
α -trans-bergamotene	Terpene: Fused-ring	C15 (C7)	Hymenoptera, Heteroptera
β -trans-bergamotene	Terpene: Fused-ring	C15 (C7)	Hymenoptera
bicolorin	Me-bran.: Ring	C10 (C6)	Coleoptera
bifloratriene	Terpene: Fused-ring	C20 (C10)	Isoptera
bipindogenin	Terpene: Fused-ring	C23 (C17)	Coleoptera
biprorulure	Other: Ring	C12 (C4)	Heteroptera
α -bisabolene	Terpene: Small ring	C15 (C6)	Heteroptera, Diptera, Lepidoptera, Isoptera
β -bisabolene	Terpene: Small ring	C15 (C6)	Isoptera, Diptera
α_2 -bisabolene	Terpene: Small ring	C15 (C6)	Isoptera
(-)-cis-(Z)- α -bisabolene epoxide	Terpene: Small ring	C15 (C6)	Heteroptera
(-)-trans-(Z)- α -bisabolene epoxide	Terpene: Small ring	C15 (C6)	Heteroptera
bishomofarnesene	Terpene: Acyclic	C17 (C13)	Hymenoptera
bishomogeranyl decanoate	Terpene: Acyclic	C12 (C9) + C10	Hymenoptera
blattellaquinone	Other: Aromatic	C7 (C6) + C5	Dictyoptera
blattellastanoside-A	Terpene: Fused-ring	C29 (C17) + C6	Dictyoptera
blattellastanoside-B	Terpene: Fused-ring	C29 (C17) + C6	Dictyoptera
bombykol	Other: Acyclic	C16	Lepidoptera (F sex)
borneol	Terpene: Fused-ring	C10 (C7)	Hymenoptera, Heteroptera
bornyl acetate	Terpene: Fused-ring	C10 (C7) + C2	[Opiliones], Hymenoptera
boschniakine	Other: True alkaloid	aro C10 (C8)	Phasmatodea
brassicalactone	Terpene: Heterocyclic	C17 (C14)	Lepidoptera
endo-brevicommin	Me-bran.: Ring	C9 (C6)	Coleoptera
exo-brevicommin	Me-bran.: Ring	C9 (C6)	Coleoptera
buibuilactone	Other: Ring	C12 (C4)	Coleoptera
buprestin A	Other: True alkaloid	[aro C5 (C4)] $\times$ 3 + C6	Coleoptera
buprestin B	Other: True alkaloid	[aro C5 (C4)] $\times$ 2 + C6 + C7	Coleoptera

buprestin D	Other: True alkaloid	[aro C5 (C4)]×2 + C6 + C9	Coleoptera
buzonamine	Other: True alkaloid	C14 (C12)	{Polyzoniida}
C			
cactoblastin	Other: Acyclic	C20 + C18 + C1	Lepidoptera
γ-cadinenal	Terpene: Fused-ring	C15 (C10)	Isoptera
γ1-cadinenal	Terpene: Fused-ring	C15 (C10)	Isoptera
γ-cadinene	Terpene: Fused-ring	C15 (C10)	Isoptera, Coleoptera
γ1-cadinene	Terpene: Fused-ring	C15 (C10)	Isoptera
δ-cadinene	Terpene: Fused-ring	C15 (C10)	Lepidoptera
δ-cadinol	Terpene: Fused-ring	C15 (C10)	Lepidoptera
callimorphine	Other: True alkaloid	C8 (C7) + C5 + C2	Lepidoptera
callosobruchusic acid	Terpene: Acyclic	C10 (C8)	Coleoptera
camphor	Terpene: Fused-ring	C10 (C7)	Heteroptera
calvine	Other: True alkaloid	C14 (C9)	Coleoptera
cantharidin	Terpene: Fused-ring	C10 (C8)	Coleoptera, Diptera
capric acid	Other: Acyclic	C10	Hymenoptera
caproic acid	Other: Acyclic	C6	Coleoptera, Hymenoptera, Heteroptera, Isoptera
caproleic acid	Other: Acyclic	C10	Thysanoptera
caprylic acid	Other: Acyclic	C8	Hymenoptera, [Thelyphonida], Coleoptera
cararrapi oxide	Terpene: Fused-ring	C15 (C9)	Isoptera
3-carene	Terpene: Fused-ring	C10 (C7)	Isoptera
3-carene-10-al	Terpene: Fused-ring	C10 (C7)	Hymenoptera
3-carene-10-ol	Terpene: Fused-ring	C10 (C7)	Coleoptera
carminic acid	Other: Aromatic	C16 (C14) + C6	Homoptera, Lepitoptera, Coleoptera, Diptera
carvacrol	Terpene: Small ring	C10 (C6)	Lepidoptera
caryophyllene oxide	Terpene: Fused-ring	C15 (C11)	Lepidoptera
β-caryophyllene	Terpene: Fused-ring	C15 (C11)	Lepidoptera, Coleoptera, Diptera
catalipyrone A	Me-bran.: Ring	C23 (C11)	Coleoptera
catalipyrone I	Me-bran.: Ring	C23 (C11)	Coleoptera

cembrene A	Terpene: Large ring	C20 (C14)	Isoptera, Diptera, Hymenoptera
(3Z)-cembrene A	Terpene: Large ring	C20 (C14)	Isoptera
CH503	Other: Acyclic	C28 + C2	Diptera
chalcogran	Other: Ring	C9 (C7)	Coleoptera
chichimol ketone	Me-bran.: Ketone	C8 (C7)	Phasmatodea, [Opiliones]
chilocorine A	Other: True alkaloid	C26 (C12)	Coleoptera
chilocorine B	Other: True alkaloid	C26 (C12)	Coleoptera
chilocorine C	Other: True alkaloid	C26 (C11)	Coleoptera
chilocorine D	Other: True alkaloid	C26 (C12)	Coleoptera
chiloglottone	Other: Ring	C11 (C6)	Hymenoptera
chortolure	Me-bran.: Ketone	C13 (C10)	[Astigmata]
chrysanthemyl tiglate	Terpene: Small ring	C10 (C3) + C5 (C4)	Homoptera
chrysarobin	Other: Aromatic	C15 (C14)	Coleoptera, Homoptera
chrysazin	Other: Aromatic	C14	Coleoptera
chrysomelidial	Terpene: Small ring	C10 (C5)	Coleoptera, [Oribatida]
<i>epi</i> -chrysomelidial	Terpene: Small ring	C10 (C5)	[Oribatida]
chrysophanol	Other: Aromatic	C15 (C14)	Coleoptera, Homoptera
cicindeloine	Other: True alkaloid	C10 (C5)	Coleoptera
1,8-cineole	Terpene: Fused-ring	C10 (C7)	Coleoptera, Heteroptera, Hymenoptera, [Oribatida]
citronellol	Terpene: Acyclic	C10 (C8)	[Prostigmata], Hymenoptera
citronellal	Terpene: Acyclic	C10 (C8)	Hymenoptera, Coleoptera
citronellyl acetate	Terpene: Acyclic	C10 (C8) + C2	Hymenoptera
citronellyl citronellate	Terpene: Acyclic	C10 (C8) + C10 (C8)	Hymenoptera
citronellyl geranate	Terpene: Acyclic	C10 (C8) + C10 (C8)	Hymenoptera
coccinelline	Other: True alkaloid	C13 (C12)	Coleoptera
codlelure	Other: Acyclic	C12	Lepidoptera (F sex)
codlemone	Other: Acyclic	C12	Lepidoptera (F sex)
coniferyl alcohol	Other: Aromatic	C9 (C6) + C1	Diptera, Hymenoptera
conophthorin	Me-bran.: Ring	C9 (C8)	Hymenoptera, Coleoptera, Diptera

coriolide	Other: Ring	C18 (C13)	Lepidoptera
cortexone	Terpene: Fused-ring	C21 (C17)	Coleoptera, Heteroptera
coumarin	Other: Aromatic	C10 (C6)	Lepidoptera
creatonotine A	Other: True alkaloid	C8 (C7) + C5	Lepidoptera, Coleoptera
creatonotine B	Other: True alkaloid	C8 (C7) + C6	Lepidoptera
crematofuran	Terpene: Large ring	C20 (C14)	Hymenoptera
<i>o</i> -cresol	Other: Aromatic	C7 (C6)	Coleoptera
<i>m</i> -cresol	Other: Aromatic	C7 (C6)	Coleoptera
<i>p</i> -cresol	Other: Aromatic	C7 (C6)	Tricho., Dictyo., Hymeno., {Polydesmida}, {Callipodida}, Coleo., Lepido.
cruentol	Me-bran.: 2° OH & ester	C9 (C8)	Coleoptera
cryptuslure	Terpene: Small ring	C10 (C4) + C5 (C4)	Homoptera
cubitene	Terpene: Large ring	C20 (C12)	Isoptera
cubugene	Terpene: Fused-ring	C20 (C15)	Isoptera
cucujolide I	Terpene: Heterocyclic	C12 (C10)	Coleoptera, Lepidoptera
cucujolide II	Other: Ring	C12 (C11)	Coleoptera
cucujolide III	Other: Ring	C14 (C13)	Coleoptera
cucujolide IV	Other: Ring	C12 (C11)	Coleoptera
cucujolide V	Other: Ring	C14 (C13)	Coleoptera
cucujolide VIII	Other: Ring	C12	Coleoptera
cucujolide IX	Other: Ring	C12	Coleoptera
cucujolide X	Other: Ring	C14 (C12)	Coleoptera
cucujolide XI	Other: Ring	C18 (C15)	Coleoptera
cupilure	Other: Acyclic	C6 (C5) + C2	[Araneae]
cybisterole	Terpene: Fused-ring	C21 (C17)	Coleoptera
cybisterone	Terpene: Fused-ring	C21 (C17)	Coleoptera
cycasin	Other: Acyclic	C1 + C1 + C6	Lepidoptera
cyclonol	Terpene: Small ring	C9 (C6)	Lepidoptera
<i>p</i> -cymene	Terpene: Small ring	C10 (C8)	Isoptera

<i>p</i> -cymen-8-ol	Terpene: Small ring	C10 (C8)	Heteroptera
cytisine	Other: True alkaloid	C11	Homoptera, Lepidoptera
D			
danaidal	Other: True alkaloid	aro C8 (C7)	Lepidoptera
danaidone	Other: True alkaloid	aro C8 (C7)	Lepidoptera
daucene	Terpene: Fused-ring	C15 (C10)	Coleoptera
deanol	Other: Acyclic	C2 + C2	Hymenoptera
dehydrocineole	Terpene: Fused-ring	C10 (C7)	[Astigmata], [Oribatida]
2-dehydrococcinelline	Other: True alkaloid	C13 (C12)	Coleoptera
6-dehydrocortexone	Terpene: Fused-ring	C21 (C17)	Coleoptera
dendrolasin	Terpene: Heterocyclic	C15 (C4)	Hymenoptera
deoxybuzonamine	Other: True alkaloid	C14 (C12)	{Platydesmida}
deoxycorticosterone	Terpene: Fused-ring	C21 (C17)	Coleoptera, Heteroptera
8-deoxypumiliotoxin 193H	Other: True alkaloid	C13 (C8)	[Oribatida]
desmolactone	Other: Ring	C16 (C4)	Coleoptera
diacetyl putrescine	Other: Acyclic	C4 + C4	Coleoptera
dihydroactinidiolide	Terpene: Fused-ring	C11 (C8)	Lepidoptera
dihydroaposcopamine	Other: True alkaloid	C8 (C7) + C9	Lepidoptera
6-dihydrocybisterone	Terpene: Fused-ring	C21 (C17)	Coleoptera
dihydroedulan	Terpene: Fused-ring	C13 (C9)	Lepidoptera
2,3-dihydrofarnesoic acid	Terpene: Acyclic	C15 (C12)	Hymenoptera
2,3-dihydrofarnesal	Terpene: Acyclic	C15 (C12)	Hymenoptera
2,3-dihydrofarnesol	Terpene: Acyclic	C15 (C12)	Hymenoptera
dihydro- β -ionone	Terpene: Small ring	C13 (C6)	Lepidoptera
dihydroisophorone	Terpene: Small ring	C9 (C6)	Lepidoptera
8-dihydromatricaria acid	Other: Acyclic	C10	Coleoptera
dihydronepetalactone	Terpene: Fused-ring	C10 (C8)	Hymenoptera, Coleoptera
3',4'-dimethoxyacetophenone	Other: Aromatic	C8 (C6) + C1 + C1	Lepidoptera
<i>N,N</i> -dimethyluracil	Other: True alkaloid	aro C6 (C4)	Hymenoptera

diprionyl acetate	Me-bran.: 2° OH & ester	C17 (C15) + C2	Hymenoptera
disparlure	Me-bran.; Hydrocar. & deriv.	C19 (C18)	Lepidoptera (F sex)
dithranol	Other: Aromatic	C14	Coleoptera
dominicalure 1	Me-bran.: Acid & deriv.	C6 (C5) + C5 (C4)	Coleoptera
dominicalure 2	Me-bran.: Acid & deriv.	C7 (C5) + C5 (C4)	Coleoptera
dolichodial	Terpene: Small ring	C10 (C5)	Homoprera, Hymenoptera, Thysanoptera, Coleoptera
dolichovespulid	Terpene: Heterocyclic	C15 (C4)	Hymenoptera
doronine <i>N</i> -oxide	Other: True alkaloid	C8 (C7) + C10 (C7)	Coleoptera
E			
β-elemene	Terpene: Small ring	C15 (C6)	Isoptera, Lepidoptera
α-elemol	Terpene: Small ring	C15 (C6)	Lepidoptera
elymniafuran	Terpene: Heterocyclic	C10 (C4)	Lepidoptera
enanthic acid	Other: Acyclic	C7	Hymenoptera
epilachnene	Other: Ring	C16 (C13)	Coleoptera
epilotaustralin	Other: Acyclic	C5 (C4) + C6	Lepidoptera
4,11-epoxy- <i>cis</i> -eudesmane	Terpene: Fused-ring	C15 (C11)	Isoptera
epoxyneral	Terpene: Acyclic	C10 (C8)	[Astigmata]
epoxyniaviolide	Terpene: Heterocyclic	C15 (C12)	Lepidoptera
epoxytetrahydroedulan	Terpene: Fused-ring	C13 (C9)	Lepidoptera
estigmine A	Other: True alkaloid	C8 (C7) + C5	Lepidoptera
estigmine B	Other: True alkaloid	C8 (C7) + C6	Lepidoptera
ethacrylic acid	Other: Acyclic	C5 (C4)	Coleoptera
ethyl cinnamate	Other: Aromatic	C9 (C6) + C2	Lipidoptera
4-ethylguaiaicol	Other: Aromatic	C8 (C6) + C1	Dictyoptera
5-ethylguaiaicol	Other: Aromatic	C8 (C6) + C1	Orthoptera
ethyl linoleate	Other: Acyclic	C18 + C2	Coleoptera
ethyl tiglate	Me-bran.: Acid & deriv.	C5 (C4) + C2	Diptera
eucalyptol	Terpene: Fused-ring	C10 (C7)	Coleoptera, Heteroptera, Hymenoptera, [Oribatida]
eugenol	Other: Aromatic	C9 (C6) + C1	Hymenoptera

euphococcinine	Other: True alkaloid	C9 (C8)	Coleoptera
exochomine	Other: True alkaloid	C26 (C12)	Coleoptera
F			
faranal	Me-bran.: 1° OH & deriv.	C17 (C13)	Hymenoptera
farnesal	Terpene: Acyclic	C15 (C12)	Isoptera, Lepidoptera, Hymenoptera, [Oribatida]
E,E- α -farnesene	Terpene: Acyclic	C15 (C12)	Diptera, Lepidoptera, Isoptera, Coleoptera
Z,E- α -farnesene	Terpene: Acyclic	C15 (C12)	Hymeno., Homo., Iso., Hetero., Diptera, Coleo.
E- β -farnesene	Terpene: Acyclic	C15 (C12)	Homoptera, Hymenoptera, Diptera, Lepidoptera
E,E- α -farnesene epoxide	Terpene: Acyclic	C15 (C12)	Heteroptera
farnesol	Terpene: Acyclic	C15 (C12)	Hymenoptera, Coleoptera, [Prostigmata]
farnesyl acetate	Terpene: Acyclic	C15 (C12) + C2	Coleoptera, [Araneae], Thysanoptera
farnesylamine	Terpene: Acyclic	C15 (C12)	Hymenoptera
farnesyl butyrate	Terpene: Acyclic	C15 (C12) + C4	Hymenoptera, Coleoptera
farnesyl 2,3-dihydrofarnesoate	Terpene: Acyclic	C15 (C12) + C15 (C12)	(Geophilomorpha)
farnesyl farnesoate	Terpene: Acyclic	C15 (C12) + C15 (C12)	(Geophilomorpha)
farnesyl hexanoate	Terpene: Acyclic	C15 (C12) + C6	Hymenoptera, Coleoptera
farnesyl octanoate	Terpene: Acyclic	C15 (C12) + C8	Hymenoptera
farnesyl oleate	Terpene: Acyclic	C15 (C12) + C18	Hymenoptera
β -fenchol	Terpene: Fused-ring	C10 (C7)	Diptera
fenchone	Terpene: Fused-ring	C10 (C7)	Coleoptera
ferrugineol	Me-bran.: 2° OH & ester	C10 (C9)	Coleoptera
ferruginone	Me-bran.: Ketone	C10 (C9)	Coleoptera
ferrulactone	Terpene: Heterocyclic	C12 (C10)	Coleoptera, Lepidoptera
fragranol	Terpene: Small ring	C10 (C4)	Homoptera
frontalin	Me-bran.: Ring	C8 (C6)	Coleoptera
fujikonyl butanoate	Terpene: Acyclic	C10 (C6) + C4	Homoptera
furaneol	Other: Ring	C6 (C4)	Dictyoptera
furanoid	Terpene: Heterocyclic	C10 (C4)	Lepidoptera
fuscumol	Terpene: Acyclic	C13 (C11)	Coleoptera

fuscumol acetate	Terpene: Acyclic	C13 (C11) + C2	Coleoptera, Hymenoptera
G			
gastrolactone	Terpene: Fused-ring	C10 (C8)	Coleoptera
GABA	Other: Acyclic	C4	Lepidoptera
geosmin	Terpene: Fused-ring	C12 (C10)	{Polydesmida}
geranial	Terpene: Acyclic	C10 (C8)	Hymeno., Lepido., Coleo., [Astigmata], [Oribatida]
geraniol	Terpene: Acyclic	C10 (C8)	Hymenoptera, Coleoptera, Heteroptera
geranolic acid	Terpene: Acyclic	C10 (C8)	Hymenoptera
geranyl acetate	Terpene: Acyclic	C10 (C8) + C2	Hymenoptera, Heteroptera
geranyl acetone	Terpene: Acyclic	C13 (C11)	Hymenoptera, Coleoptera, Lepidoptera
geranyl butyrate	Terpene: Acyclic	C10 (C8) + C4	Coleoptera
geranylcitronellal	Terpene: Acyclic	C20 (C16)	Hymenoptera
geranyl citronellate	Terpene: Acyclic	C10 (C8) + C10 (C8)	Hymenoptera
geranylcitronellol	Terpene: Acyclic	C20 (C16)	Hymenoptera
Me4-geranyl decanoate	Terpene: Acyclic	C11 (C8) + C10	Hymenoptera
geranylgeraniol	Terpene: Acyclic	C20 (C16)	Isoptera
geranylgeranyl acetate	Terpene: Acyclic	C20 (C16) + C2	Hymenoptera
geranylgeranyl acetone	Terpene: Acyclic	C23 (C19)	Lepidoptera
geranyl hexanoate	Terpene: Acyclic	C10 (C8) + C6	Coleoptera
geranyllinalool	Terpene: Acyclic	C20 (C16)	Isoptera
geranyl methyl thioether	Terpene: Acyclic	C10 (C8) + C1	Lepidoptera
geranyl octanoate	Terpene: Acyclic	C10 (C8) + C8	Hymenoptera, Coleoptera
Me4-geranyl octanoate	Terpene: Acyclic	C11 (C8) + C8	Hymenoptera
germacradienol	Terpene: Large ring	C15 (C10)	Diptera
germacrene A	Terpene: Large ring	C15 (C10)	Homoptera, Lepidoptera, Isoptera
glomerin	Other: True alkaloid	aro C10 (C8)	{Glomerida}
gluconic acid	Other: Acyclic	C6	Dictyoptera
gluconolactone	Other: Ring	C6 (C5)	Dictyoptera
glutamic acid	Other: Acyclic	C5	Diptera

glutathione	Other: Acyclic	C5 + C3 + C2	Diptera
gomadalactone A	Terpene: Fused-ring	C17 (C7)	Coleoptera
gomadalactone B	Terpene: Fused-ring	C17 (C7)	Coleoptera
gomadalactone C	Terpene: Fused-ring	C17 (C7)	Coleoptera
gosodesmine	Other: True alkaloid	C14 (C8)	{Platydesmida}
gossyplure	Other: Acyclic	C16 + C2	Lepidoptera (F sex)
grandisal	Terpene: Small ring	C10 (C4)	Coleoptera
grandisol	Terpene: Small ring	C10 (C4)	Coleoptera
grandisoic acid	Terpene: Small ring	C10 (C4)	Coleoptera
grandisolide	Terpene: Fused-ring	C10 (C7)	Coleoptera
grandlure I	Terpene: Small ring	C10 (C4)	Coleoptera
Z grandlure II	Terpene: Small ring	C10 (C6)	Coleoptera
E grandlure II	Terpene: Small ring	C10 (C6)	Coleoptera
grandlure III	Terpene: Small ring	C10 (C6)	Coleoptera
grandlure IV	Terpene: Small ring	C10 (C6)	Coleoptera
grandisol acetate	Terpene: Small ring	C10 (C4) + C2	Coleoptera
graphisurone	Me-bran.: Ketone	C14 (C11)	Coleoptera
guaiacol	Other: Aromatic	C6 + C1	{Polydesmida}, Hymeno., Ortho., Lepido., Coleo.
guanine	Other: True alkaloid	aro C5	[Ixodida], [Mesostigmata]
gyrinidal	Terpene: Acyclic	C14 (C12)	Coleoptera
gyrinidione	Terpene: Small ring	C14 (C5)	Coleoptera
gyrinidone	Terpene: Fused-ring	C14 (C8)	Coleoptera
H			
harmonine	Other: Acyclic	C18	Coleoptera
heliotridine	Other: True alkaloid	C8 (C7)	Coleoptera
heliotrine	Other: True alkaloid	C8 (C7) + C7 + C1	Lepidoptera
helminthogermacrene	Terpene: Large ring	C15 (C10)	Isoptera
hematin	Other: True alkaloid	aro C34 (C20)	[Ixodida], [Mesostigmata]
hepialone	Other: Ring	C8 (C5)	Lepidoptera

herniarin	Other: Aromatic	C10 (C6) + C1	Lepidoptera
hexalure	Other: Acyclic	C16 + C2	Lepidoptera (F sex)
3-hexenyl 2,3-dihydrofarnesoate	Terpene: Acyclic	C15 (C12) + C6	Lepidoptera
himachala-9,11-diene	Terpene: Fused-ring	C15 (C11)	Coleoptera
<i>ar</i> -himachalene	Terpene: Fused-ring	C15 (C11)	Coleoptera
himantarine	Other: True alkaloid	aro C5 + C3	(Geophilomorpha)
hippodamine	Other: True alkaloid	C13 (C12)	Coleoptera
histamine	Other: True alkaloid	aro C5 (C3)	Lepidoptera, Heteroptera
homalinol	Terpene: Small ring	C9 (C6)	Coleoptera
homofarnesal	Terpene: Acyclic	C16 (C12)	Coleoptera
Z,E- α -homofarnesene	Terpene: Acyclic	C16 (C12)	Hymenoptera
Z,E-homofarnesene	Terpene: Acyclic	C16 (C12)	Hymenoptera
homoglomerin	Other: True alkaloid	aro C11 (C8)	{Glomerida}
homo-gosodesmine	Other: True alkaloid	C15 (C9)	{Platydesmida}
homo-hydrogosodesmine	Other: True alkaloid	C15 (C9)	{Platydesmida}
10-homonerol oxide	Terpene: Heterocyclic	C11 (C5)	Neuroptera
homooocimene	Terpene: Acyclic	C11 (C9)	Hymenoptera
homovanillyl alcohol	Other: Aromatic	C8 (C6) + C1	Hymenoptera, Lepidoptera
hydrogosodesmine	Other: True alkaloid	C14 (C8)	{Platydesmida}
1-hydroxy- <i>exo</i> -brevicomine	Me-bran.: Ring	C9 (C6)	Coleoptera
hydroxydanaidal	Other: True alkaloid	aro C8 (C7)	Lepidoptera
8-hydroxylinalool	Terpene: Acyclic	C10 (C8)	Heteroptera
hydroxymellein	Other: Aromatic	C10 (C6)	Hymenoptera
5-hydroxytryptamine	Other: True alkaloid	aro C10 (C8)	Hymenoptera
hyperaspine	Other: True alkaloid	C14 (C8) + C5	Coleoptera
hypoxanthine	Other: True alkaloid	aro C5	[Ixodida]
I			
IAA	Other: True alkaloid	aro C10 (C8)	Coleoptera
indole	Other: True alkaloid	aro C8	Trichoptera, Lepidoptera, Hymenoptera, Coleoptera

indolizidine 223A	Other: True alkaloid	C15 (C8)	[Oribatida]	
indolizidine 195G	Other: True alkaloid	C13 (C8)	[Oribatida]	
integerrimine	Other: True alkaloid	C8 (C7) + C10 (C6)	Lepidoptera	
intermedine	Other: True alkaloid	C8 (C7) + C7	Lepidoptera, Coleoptera	
invictolide	Me-bran.: Acid & deriv.	C12 (C9)	Hymenoptera	
<i>E</i> - β -ionone	Terpene: Small ring	C13 (C6)	Lepidoptera	
ipsdienol	Terpene: Acyclic	C10 (C8)	Coleoptera	
ipsenol	Terpene: Acyclic	C10 (C8)	Coleoptera	
ipsenone	Terpene: Acyclic	C10 (C8)	Coleoptera	
iridodial	Terpene: Small ring	C10 (C5)	Hymenoptera, Neuroptera,	Hymenoptera, Coleoptera
iridomyrmecin	Terpene: Fused-ring	C10 (C8)	Hymenoptera	
isoamyl acetate	Terpene: Acyclic	C5 (C4) + C2	Hymenoptera	
isobrevicommin	Me-bran.: Ring	C9 (C6)	Coleoptera	
isocreatonotine A	Other: True alkaloid	C8 (C7) + C5	Lepidoptera, Coleoptera	
isocrematofuran	Terpene: Large ring	C20 (C14)	Hymenoptera	
isocrotonic acid	Other: Acyclic	C14	Coleoptera	
γ -isogeraniol	Terpene: Acyclic	C10 (C8)	Coleoptera	
<i>Z</i> -isogeraniol	Terpene: Acyclic	C10 (C8)	Hymenoptera	
isogyridal	Terpene: Acyclic	C14 (C12)	Coleoptera	
isoleucine methyl ester	Me-bran.: Acid & deriv.	C6 (C5) + C1	Coleoptera	
isomyrcenol	Terpene: Acyclic	C10 (C8)	Coleoptera	
isopentyl acetate	Terpene: Acyclic	C5 (C4) + C2	Hymenoptera	
isopentyl butyrate	Terpene: Acyclic	C5 (C4) + C4	Heteroptera	
α -isophorone	Terpene: Small ring	C9 (C6)	Coleoptera, Lepidoptera	
isopiperitenone	Terpene: Small ring	C10 (C6)	[Astigmata]	
isopropyl tiglate	Me-bran.: Acid & deriv.	C5 (C4) + C3 (C2)	Diptera	
isopsylloborine A	Other: True alkaloid	C26 (C12)	Coleoptera	
isopulegol	Terpene: Small ring	C10 (C6)	Coleoptera	
isorobinal	Terpene: Small ring	C10 (C6)	[Astigmata]	

isosiphonodin	Terpene: Heterocyclic	C5 (C4)	Lepidoptera
isosolenopsin A	Other: True alkaloid	C17 (C5)	Hymenoptera
isovaleric acid	Terpene: Acyclic	C5 (C4)	Coleoptera, Hymenoptera, [Araneae]
ithomiolide A	Me-bran.: Acid & deriv.	C7 (C4)	Lepidoptera
ithomiolide B	Me-bran.: Acid & deriv.	C7 (C4)	Lepidoptera
J			
japonilure	Other: Ring	C14 (C4)	Coleoptera
juglone	Other: Aromatic	C10	Coleoptera, Thysanoptera
K			
kempene 1	Terpene: Fused-ring	C20 (C16) + C4	Isoptera
kempene 2	Terpene: Fused-ring	C20 (C16) + C2	Isoptera
kempenone	Terpene: Fused-ring	C20 (C16)	Isoptera
kempenone deriv.	Terpene: Fused-ring	C20 (C16) + C2	Isoptera
kongol	Terpene: Fused-ring	C15 (C10)	Lepidoptera
L			
lanierone	Terpene: Small ring	C9 (C6)	Coleoptera
lardolure	Me-bran.: 2° OH & ester	C14 (C11) + C1	[Astigmata]
lasiol	Terpene: Acyclic	C10 (C7)	Hymenoptera
lauric acid	Other: Acyclic	C12	Hymenoptera, Diptera
lavandulol	Terpene: Acyclic	C10 (C6)	Coleoptera, Homoptera
lavandulyl acetat	Terpene: Acycli	C10 (C6) + C2	Homoptera, Thysanoptera
lavandulyl 3-methyl-3-butenolate	Terpene: Acyclic	C10 (C6) + C5 (C4)	Thysanoptera
lavandulyl 2-methylbutyrate	Terpene: Acyclic	C10 (C6) + C5 (C4)	Homoptera, Thysanoptera
lavandulyl 3-methylbutyrate	Terpene: Acyclic	C10 (C6) + C5 (C4)	Thysanoptera
lavandulyl propionate	Terpene: Acyclic	C10 (C6) + C3	Homoptera,
lavandulyl senecioate	Terpene: Acyclic	C10 (C6) + C5 (C4)	Homoptera
lavender lactone	Me-bran.: Acid & deriv.	C7 (C6)	Lepidoptera
leaf aldehyde	Other: Acyclic	C6	Heteroptera, Dictyoptera, Hymenoptera, Coleoptera
leptotriene	Terpene: Fused-ring	C15 (C10)	Heteroptera

leucine	Me-bran.: Acid & deriv.	C6 (C5)	Hymenoptera
leucine methyl ester	Me-bran.: Acid & deriv.	C6 (C5) + C1	Coleoptera
leucomalure	Other: Acyclic	C21	Lepidoptera (F sex)
lignoceric acid	Other: Acyclic	C24	Isoptera
limonene	Terpene: Small ring	C10 (C6)	Heteroptera, Isoptera, Hymenoptera, Coleoptera
limoniic acid	Other: Acyclic	C10 (C8)	Coleoptera
linalool	Terpene: Acyclic	C10 (C8)	Hymeno., Lepido., Hetero.. Diptera, Coleo.
linalool oxide	Terpene: Heterocyclic	C10 (C4)	Lepidoptera
linamarin	Other: Acyclic	C4 (C3) + C6	Lepidoptera
lineatin	Terpene: Fused-ring	C10 (C7)	Coleoptera
linoleic acid	Other: Acyclic	C18	Homoptera
linolenic acid	Other: Acyclic	C18	Lepidoptera
locustol	Other: Aromatic	C8 (C6) + C1	Orthoptera
longipenol	Terpene: Fused-ring	C20 (C16)	Isoptera
lotaustralin	Other: Acyclic	C5 (C4) + C6	Lepidoptera
lucibufagin	Terpene: Fused-ring	C24 (C17) + C4	Coleoptera
lupanine	Other: True alkaloid	C15	Homoptera
lycidic acid	Other: Acyclic	C18	Coleoptera
lycopsamine	Other: True alkaloid	C8 (C7) + C7	Lepidoptera, Coleoptera
M			
maconelliyl 3-methylbut-2-enoate	Terpene: Small ring	C10 (C4) + C5 (C4)	Homoptera
maconelliyl 2-methylbutyrate	Terpene: Small ring	C10 (C4) + C5 (C4)	Homoptera
maculatic acid A	Terpene: Acyclic	C12 (C10)	Hymenoptera
maculatic acid C	Terpene: Acyclic	C12 (C10) + C1	Hymenoptera
mandelonitrile	Other: Aromatic	C8 (C6)	{Polydesmida}, (Geophilomorpha), Coleo., Hymeno., Lepido.
mandelonitrile benzoate	Other: Aromatic	C8 (C6) + C7	{Polydesmida}, (Geophilomorpha)
manicone	Me-bran.: Ketone	C10 (C8)	Hymenoptera
marginalin	Other: Aromatic	C15 (C6)	Coleoptera
matrine	Other: True alkaloid	C15	Homoptera

matsuone	Me-bran.: Ketone	C17 (C13)	Homoptera
mayolenes-16	Other: Acyclic	C18 + C16	Lepidoptera
mayolenes-18	Other: Acyclic	C18 + C18	Lepidoptera
mellein	Other: Aromatic	C10 (C6)	Hymenoptera, Isoptera, Lepidoptera, Thysanoptera
<i>p</i> -mentha-1,3-dien-8-ol	Terpene: Small ring	C10 (C6)	Coleoptera
<i>cis</i> -2-menthen-1-ol	Terpene: Small ring	C10 (C6)	Coleoptera
<i>trans</i> -2-menthen-1-ol	Terpene: Small ring	C10 (C6)	Coleoptera
methacrylic acid	Other: Acyclic	C4 (C3)	Coleoptera
methionol	Other: Acyclic	C3 + C1	Coleoptera
9-methoxydanaidol	Other: True alkaloid	C8 (C7) + C1	Lepidoptera
<i>p</i> -methylanisole	Other: Aromatic	C7 (C6) + C1	Coleoptera
methyl anthranilate	Other: Aromatic	C7 (C6) + C1	Hymenoptera
<i>N</i> -methylcytisine	Other: True alkaloid	C11 + C1	Lepidoptera
methyl 2,3-dihydrofarnesoate]	Terpene: Acyclic	C15 (C12) + C1	Heteroptera
methyl epijasmone	Other: Ring	C12 (C5) + C1	Lepidoptera
9-methylgermacrene B	Terpene: Large ring	C16 (C10)	Diptera
9- <i>O</i> -methyl-hydroxydanaidol	Other: True alkaloid	aro C8 (C7) + C1	Lepidoptera
methyl hydroxydanaidoate	Other: True alkaloid	aro C8 (C7) + C1	Lepidoptera
methyl jasmonate	Other: Ring	C12 (C5) + C1	Lepidoptera
2-methyljuglone	Other: Aromatic	C11 (C10)	Thysanoptera, [Mesostigmata]
7-methyljuglone	Other: Aromatic	C11 (C10)	Thysanoptera, [Mesostigmata]
methyl 6-methylsalicylate	Other: Aromatic	C8 (C6) + C1	Hymenoptera, Coleoptera
methyl nicotinate	Other: True alkaloid	aro C6 (C5) + C1	Hymenoptera
methyl salicylate	Other: Aromatic	C7 (C6) + C1	[Ixodida], Coleoptera, Lepidoptera
2-methylsuberic acid	Me-bran.: Acid & deriv.	C9 (C8)	Coleoptera
3-methylsuberic acid	Me-bran.: Acid & deriv.	C9 (C8)	Coleoptera
mirasorvone	Terpene: Fused-ring	C21 (C17)	Coleoptera
monochamol	Other: Acyclic	C11 + C2	Coleoptera
monocrotaline	Other: True alkaloid	C8 (C7) + C8 (C5)	Lepidoptera, Orthoptera

monomorphine III	Other: True alkaloid	C15(C4)	Hymenoptera
monomorphine I	Other: True alkaloid	C13 (C8)	Hymenoptera
α -multistriatin	Me-bran.: Ring	C10 (C6)	Coleoptera
murgantiol	Terpene: Small ring	C15 (C6)	Heteroptera
muscalure	Other: Acyclic	C23	Diptera, Hymenoptera, Coleoptera, [Araneae]
β -myrcene	Terpene: Acyclic	C10 (C8)	Lepidoptera, Thysanoptera, Isoptera
E-myrcenol	Terpene: Acyclic	C10 (C8)	Coleoptera
myristic acid	Other: Acyclic	C14	Lepidoptera
myrmicacin	Other: Acyclic	C10	Hymenoptera, Coleoptera, [Opiliones]
myrrhine	Other: True alkaloid	C13 (C12)	Coleoptera
myrtenol	Terpene: Fused-ring	C10 (C7)	Coleoptera
N			
nauphoetin	Other: Acyclic	C24 + C18	Dictyoptera
α -necrodol	Terpene: Small ring	C10 (C5)	Coleoptera
β -necrodol	Terpene: Small ring	C10 (C5)	Coleoptera
<i>trans</i> - α -necrodyl isobutyrate	Terpene: Small ring	C10 (C5) + C4 (C3)	Homoptera
γ -necrodyl isobutyrate	Terpene: Small ring	C10 (C5) + C4 (C3)	Homoptera
neocembrene	Terpene: Large ring	C20 (C14)	Isoptera, Diptera, Hymenoptera
neo-intermedeol	Terpene: Fused-ring	C15 (C10)	Isoptera
nepetalactone	Terpene: Fused-ring	C10 (C8)	Homoptera
nepetalactol	Terpene: Fused-ring	C10 (C8)	Homoptera
neral	Terpene: Acyclic	C10 (C8)	Hymeno., Lepido., Coleo., [Astigmata], [Oribatida]
nerol	Terpene: Acyclic	C10 (C8)	Hymenoptera
nerolic acid	Terpene: Acyclic	C10 (C8)	Hymenoptera
nerolidol	Terpene: Acyclic	C15 (C12)	[Prostigmata]
<i>E</i> -nerolidol	Terpene: Acyclic	C15 (C12)	Coleoptera, Lepidoptera, Hymenoptera, Heteroptera, Isoptera
<i>Z</i> -nerolidol	Terpene: Acyclic	C15 (C12)	Hymenoptera
nerol oxide	Terpene: Heterocyclic	C10 (C5)	Neuroptera
neryl butyrate	Terpene: Acyclic	C10 (C8) + C4	Coleoptera

neryl decanoate	Terpene: Acyclic	C10 (C8) + C10	Coleoptera
neryl formate	Terpene: Acyclic	C10 (C8) + C1	[Astigmata], [Oribatida]
neryl hexanoate	Terpene: Acyclic	C10 (C8) + C6	Coleoptera
neryl 2-methylbutyrate	Terpene: Acyclic	C10 (C8) + C5 (C4)	Thysanoptera
neryl octanoate	Terpene: Acyclic	C10 (C8) + C8	Coleoptera
niaviolide	Terpene: Heterocyclic	C15 (C12)	Lepidoptera
nicotine	Other: True alkaloid	aro C9 (C5) + C1	[Opiliones]
nitropolyzonamine	Other: True alkaloid	C13 (C11)	{Polyzoniida}
nordanaidone	Other: True alkaloid	aro C7	Lepidoptera
nor-serricornin	Me-bran.: Ketone	C10 (C8)	Coleoptera
norstenusine	Other: True alkaloid	C9 (C5) + C2	Coleoptera
O			
<i>E</i> -β-ocimene	Terpene: Acyclic	C10 (C8)	Lepidoptera, Coleoptera, Hymenoptera, Isoptera
<i>Z</i> -β-ocimene	Terpene: Acyclic	C10 (C8)	Isoptera. Lepidoptera
ocimene epoxide	Terpene: Acyclic	C10 (C8)	Heteroptera
olean	Other: Ring	C9	Diptera
oleanderlure	Terpene: Small ring	C15 (C4) + C2	Homoptera
oleic acid	Other: Acyclic	C18	Hymenoptera, Isoptera
oryctelure	Me-bran.: Acid & deriv.	C9 (C8) + C2	Coleoptera
3-oxohexyl 2,3-dihydrofarnesoate	Terpene: Acyclic	C15 (C12) + C6	Lepidoptera
oxoisophorone	Terpene: Small ring	C9 (C6)	Lepidoptera
P			
paederoside	Terpene: Fused-ring	C10 (C9) + C6 + C2	Homoptera
palasonin	Terpene: Fused-ring	C9 (C8)	Coleoptera
pallantione	Me-bran.: Ketone	C17 (C14)	Heteroptera
palmitic acid	Other: Acyclic	C16	Hymenoptera, Lepidoptera, Isoptera
palmitoleic acid	Other: Acyclic	C16	Hymenoptera, Isoptera
papayanal	Terpene: Fused-ring	C10 (C7)	Coleoptera
papayanol	Terpene: Fused-ring	C10 (C7)	Coleoptera

parcoblattalactone	Other: Ring	C12	Dictyoptera
parectadial	Terpene: Small ring	C10 (C6)	Phasmatodea
peckidienal	Me-bran.: 1° OH & deriv.	C17 (C13)	Strepsiptera
pederin	Me-bran.: Ring	C10 (C5) + C14 (C5) + C1	Coleoptera
pelargonic acid	Other: Acyclic	C9	Hymenoptera
pentagonal propionate	Terpene: Acyclic	C15 (C10) + C3	Homoptera
<i>E</i> -perillenal	Terpene: Heterocyclic	C10 (C4)	Hymenoptera
perillene	Terpene: Heterocyclic	C10 (C4)	Hymenoptera, Thysanoptera, [Astigmata]
perillyl alcohol	Terpene: Small ring	C10 (C6)	Heteroptera
periplanolide E	Other: Aromatic	C15 (C6)	Dictyoptera
periplanone A	Terpene: Large ring	C15 (C10)	Dictyoptera
periplanone B	Terpene: Large ring	C15 (C10)	Dictyoptera
periplanone C	Terpene: Large ring	C15 (C10)	Dictyoptera
periplanone D	Terpene: Large ring	C15 (C10)	Dictyoptera
periplanone J	Terpene: Large ring	C15 (C10)	Dictyoptera
periplogenin	Terpene: Fused-ring	C23 (C17)	Coleoptera
peruphasmal	Terpene: Small ring	C10 (C5)	Phasmatodea, Hymenoptera
α -phellandrene	Terpene: Small ring	C10 (C6)	Isoptera
β -phellandrene	Terpene: Small ring	C10 (C6)	Isoptera, Coleoptera, Lepidoptera
phoenicol	Me-bran.: 2° OH & ester	C9 (C8)	Coleoptera
phoracanthal	Other: Ring	C8 (C5)	Coleoptera
phoracanthol	Other: Ring	C8 (C5)	Coleoptera
phoracantholide I	Other: Ring	C10 (C9)	Coleoptera
phoracantholide J	Other: Ring	C10 (C9)	Coleoptera
phyllisolide	Terpene: Heterocyclic	C13 (C10)	Lepidoptera
<i>E</i> -phytal	Terpene: Acyclic	C20 (C16)	Orthoptera, Lepidoptera
<i>Z</i> -phytal	Terpene: Acyclic	C20 (C16)	Lepidoptera
phytol	Terpene: Acyclic	C20 (C16)	Lepidoptera
phytone	Terpene: Acyclic	C18 (C15)	Lepidoptera, Hymenoptera, Coleoptera

pityol	Terpene: Heterocyclic	C8 (C4)	Coleoptera
α -pinene	Terpene: Fused-ring	C10 (C7)	Coleo., Hymeno., Lepido., Thysano., Iso., Hetero., Homo.
β -pinene	Terpene: Fused-ring	C10 (C7)	Hymeno., Iso., Hetero., Homo. {Polyzoniida}
<i>trans</i> -pinocarveol	Terpene: Fused-ring	C10 (C7)	Coleoptera
pinocarvone	Terpene: Fused-ring	C10 (C7)	Lepidoptera, Coleoptera
piperitone	Terpene: Small ring	C10 (C6)	Heteroptera
pityol	Terpene: Heterocyclic	C8 (C4)	Coleoptera
plagiodial	Terpene: Small ring	C10 (C5)	Coleoptera
plagiolactone	Terpene: Fused-ring	C10 (C8)	Coleoptera
planococyl acetate	Terpene: Small ring	C10 (C4) + C2	Homoptera
platambin	Terpene: Fused-ring	C15 (C10)	Coleoptera
plumbagin	Other: Aromatic	C11 (C10)	Thysanoptera, [Mesostigmata]
precoccinelline, 193C	Other: True alkaloid	C13 (C12)	Coleoptera, [Oribatida]
prieskanol	Me-bran.: 1° OH & deriv.	C15 (C11)	Homoptera
propylein	Other: True alkaloid	C13 (C12)	Coleoptera
polyzonimine	Other: True alkaloid	C10 (C8)	{Polyzoniida}
posticlure	Other: Acyclic	C21	Lepidoptera (F sex)
psylloborine A	Other: True alkaloid	C26 (C12)	Coleoptera
pumiliotoxin 251D	Other: True alkaloid	C16 (C8)	[Oribatida]
pumiliotoxin 291G	Other: True alkaloid	C19 (C8)	[Oribatida]
Q			
quadrilure	Me-bran.: 2° OH & ester	C10 (C9) + C2	Coleoptera
quercivorol	Terpene: Small ring	C10 (C6)	Coleoptera
R			
raspberry ketone	Other: Aromatic	C10 (C6)	Diptera
rhizoglyphinyl formate	Other: Aromatic	C8 (C6) + C1	[Astigmata], [Oribatida]
rhynchophorol	Me-bran.: 2° OH & ester	C8 (C7)	Coleoptera
rippertane deriv.	Terpene: Fused-ring	C20 (C16)	Isoptera
rippertenol	Terpene: Fused-ring	C20 (C16)	Isoptera

robinal	Terpene: Small ring	C10 (C6)	[Astigmata]
romallenone	Terpene: Small ring	C13 (C6)	Orthoptera
rosefuran	Terpene: Heterocyclic	C10 (C4)	[Astigmata]
rose oxide	Terpene: Heterocyclic	C10 (C5)	Coleoptera、Heteroptera
S			
sabinene	Terpene: Fused-ring	C10 (C6)	Hymenoptera, Coleoptera, Lepidoptera
salicin	Other: Aromatic	C7 (C6) + C6	Coleoptera, Lepidoptera
salicortin	Other: Aromatic	C7 (C6) + C7 + C6	Lepidoptera
salicylaldehyde	Other: Aromatic	C7 (C6)	Hymenoptera, Coleoptera, Lepidoptera
sarmentogenin	Terpene: Fused-ring	C23 (C17)	Coleoptera
sarmentosin	Other: Acyclic	C5 (C4) + C6	Lepidoptera
scopolamine	Other: True alkaloid	C8 (C7) + C9	Homoptera, Lepidoptera
secotrineritane deriv.	Terpene: Fused-ring	C20 (C16) + C2	Isoptera
<i>epi</i> - α -selinene	Terpene: Fused-ring	C15 (C10)	Isoptera
β -selinene	Terpene: Fused-ring	C15 (C10)	Isoptera
selin-11-en-4 α -ol	Terpene: Fused-ring	C15 (C10)	Lepidoptera
senecioic acid	Terpene: Acyclic	C5 (C4)	Dictyoptera, Coleoptera
senecionine	Other: True alkaloid	C8 (C7) + C10 (C6)	Lepidoptera
seneciphylline	Other: True alkaloid	C8 (C7) + C10 (C6)	Lepidoptera
seneciphylline <i>N</i> -oxide	Other: True alkaloid	C8 (C7) + C10 (C6)	Coleoptera
serine	Other: Acyclic	C3	Hymenoptera
serotonin	Other: True alkaloid	aro C10 (C8)	Hymenoptera
serricornin	Me-bran.: Ketone	C11 (C9)	Coleoptera
serricorole	Me-bran.: Ring	C14 (C11)	Coleoptera
α -serricorone	Me-bran.: Ring	C14 (C11)	Coleoptera
β -serricorone	Me-bran.: Ring	C14 (C11)	Coleoptera
β -sesquiphellandrene	Terpene: Small ring	C15 (C6)	Heteroptera
sesquipiperitol	Terpene: Small ring	C15 (C6)	Heteroptera
sesquisabinenol	Terpene: Fused-ring	C15 (C6)	Heteroptera

seudenone	Me-bran.: Ring	C7 (C6)	Coleoptera, Hymenoptera
seudenol	Me-bran.: Ring	C7 (C6)	Coleoptera
siphonodin	Terpene: Heterocyclic	C5 (C4)	Lepidoptera
sitophilate	Me-bran.: Acid & deriv.	C6 (C5) + C5	Coleoptera
sitophilure	Me-bran.: Ketone	C8 (C7)	Coleoptera
sitophinone	Me-bran.: Ketone	C8 (C7)	Coleoptera
skatole	Other: True alkaloid	aro C9 (C8)	Neuroptera, Trichoptera, Hymenoptera, Coleoptera
sobralene	Terpene: Fused-ring	C20 (C15)	Diptera
solanone	Terpene: Acyclic	C13 (C9)	Homoptera
solenopsin A	Other: True alkaloid	C17 (C5)	Hymenoptera
solenopsin B	Other: True alkaloid	C19 (C5)	Hymenoptera
solenopsin C	Other: True alkaloid	C21 (C5)	Hymenoptera
sorbyl acetate	Other: Acyclic	C6 + C2	Heteroptera
sordidin	Me-bran.: Ring	C11 (C6)	Coleoptera, Trichoptera
β-springene	Terpene: Acyclic	C20 (C16)	Hymenoptera
spiropyrrolizidine 236	Other: True alkaloid	C13 (C11) + C1	{Polyzoniida}, {Siphonocryptida}
squalene	Terpene: Acyclic	C30 (C24)	[Ixodida], Coleoptera
stearic acid	Other: Acyclic	C18	Isoptera
stegobinone	Me-bran.: Ring	C13 (C10)	Coleoptera
stegobiol	Me-bran.: Ring	C13 (C10)	Coleoptera
stenotarsol	Terpene: Fused-ring	C15 (C12)	Coleoptera
stenusine	Other: True alkaloid	C10 (C5) + C2	Coleoptera
stylopsal	Me-bran.: 1° OH & deriv.	C15 (C12)	Strepsiptera
<i>E</i> -subaeneol	Terpene: Acyclic	C10 (C8)	Coleoptera
sulcatol	Terpene: Acyclic	C8 (C7)	Coleoptera
sulcatone	Terpene: Acyclic	C8 (C7)	Lepido., Coleo., Homo., Hymeno., [Opiliones], etc
supellapyrone	Me-bran.: Acid & deriv.	C15 (C11)	Dictyoptera
supinine	Other: True alkaloid	C8 (C7) + C7	Coleoptera
suspensolide	Terpene: Heterocyclic	C12 (C10)	Diptera

suspensoside A	Terpene: Small ring	C12 (C6) + C6	Diptera
suspensoside B	Terpene: Small ring	C12 (C6) + C6	Diptera
syringic acid	Other: Aromatic	C7 (C6) + C2	Collembola
T			
α -terpinene	Terpene: Small ring	C10 (C6)	Isoptera
γ -terpinene	Terpene: Small ring	C10 (C6)	Hymenoptera, Coleoptera
terpinen-4-ol	Terpene: Small ring	C10 (C6)	Coleoptera
α -terpineol	Terpene: Small ring	C10 (C6)	Heteroptera, Coleoptera
terpinolene	Terpene: Small ring	C10 (C6)	Heteroptera, Isoptera, Hymenoptera, Coleoptera
testosterone	Terpene: Fused-ring	C19 (C17)	Coleoptera
tetraonerine-2	Other: True alkaloid	C13 (C10)	Hymenoptera
tetraonerine-4	Other: True alkaloid	C14 (C11)	Hymenoptera
tetraonerine-6	Other: True alkaloid	C15 (C10)	Hymenoptera
tetraonerine-7	Other: True alkaloid	C16 (C11)	Hymenoptera
tetraonerine-8	Other: True alkaloid	C16 (C11)	Hymenoptera
α -thujene	Terpene: Fused-ring	C10 (C6)	Isoptera, Heteroptera
thymol	Terpene: Small ring	C10 (C6)	Heteroptera
tiglic acid	Me-bran.: Acid & deriv.	C5 (C4)	Coleoptera
α -tocopheryl acetate	Other: Aromatic	C29 (C9) + C2	Coleoptera
γ -tocopheryl acetate	Other: Aromatic	C28 (C9) + C2	Coleoptera
toluquinone	Other: Aromatic	C7 (C6)	Coleo., {Julida}, {Spirostreptida}, Iso., {Spirobolida}, Derma.
torreyol	Terpene: Fused-ring	C15 (C10)	Lepidoptera
tremulacin	Other: Aromatic	C7 (C6) + C13 + C7	Lepidoptera
tribolure	Me-bran.: 1° OH & deriv.	C12 (C10)	Coleoptera
trilinolein	Other: Acyclic	C18 + C3 + C18 + C18	Isoptera
trinervitane deriv.	Terpene: Fused-ring	C20 (C16)	Isoptera
triolein	Other: Acyclic	C18 + C3 + C18 + C18	Hymenoptera
trishomofarnesene	Terpene: Acyclic	C18 (C13)	Hymenoptera
trogodermal	Me-bran.: 1° OH & deriv.	C17 (C16)	Coleoptera

trunc-call 1	Me-bran.: Acid & deriv.	C6 (C5) + C3	Coleoptera
trunc-call 2	Me-bran.: Acid & deriv.	C9 (C7) + C3	Coleoptera
U			
umbelliferone	Other: Aromatic	C10 (C6)	Lepidoptera
V			
vaccenol	Other: Acyclic	C18	Hymenoptera
<i>cis</i> -vaccenic acid	Other: Acyclic	C18	Coleoptera
vaccenyl acetate	Other: Acyclic	C18 + C2	Diptera, Coleoptera
valencene	Terpene: Fused-ring	C15 (C10)	Isoptera
valeric acid	Other: Acyclic	C5	Coleoptera
valine	Me-bran.: Acid & deriv.	C5 (C4)	Hymenoptera
valine methyl ester	Me-bran.: Acid & deriv.	C5 (C4) + C1	Coleoptera
vanillin	Other: Aromatic	C7 (C6) + C1	Heteroptera, Hymenoptera, Lepidoptera
veratrole	Other: Aromatic	C6 + C2	Orthoptera
verbenene	Terpene: Fused-ring	C10 (C7)	Coleoptera
<i>cis</i> -verbenol	Terpene: Fused-ring	C10 (C7)	Coleoptera
<i>trans</i> -verbenol	Terpene: Fused-ring	C10 (C7)	Coleoptera
vesperal	Terpene: Small ring	C10 (C6)	Coleoptera
4-vinylnisole	Other: Aromatic	C8 (C6) + C1	Orthoptera
viridifloric β -lactone	Other: Ring	C7 (C3)	Lepidoptera
viridiflorol	Terpene: Fused-ring	C15 (C11)	Coleoptera
vittatalactone	Me-bran.: Acid & deriv.	C16 (C11)	Coleoptera
<i>cis</i> -vittatol	Terpene: Heterocyclic	C8 (C5)	Coleoptera
X			
xanthine	Other: True alkaloid	aro C5	[Ixodida]
Z			
zingerol	Other: Aromatic	C10 (C6) + C1	Diptera
zingiberene	Terpene: Small ring	C15 (C6)	Heteroptera
zingiberenol	Terpene: Small ring	C15 (C6)	Heteroptera

