Journal of Applied Pharmaceutical Science

Available online at http://www.japsonline.com

Phytochemical and pharmacological aspects of the genus *Chamaecrista*: a systematic review

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Doi: http://doi.org/10.7324/JAPS.2025.241066

SUPPLEMENTARY MATERIAL

Table S1. Isolated and/or identified chemical compounds from the genus *Chamaecrista*

Numeric code	Chemical compound	Plant species	Part used	Reference
Phenolic compounds				
1	2,4-diacetylphloroglucinol	*C. diphylla*	Leaves	[1]
2	(epi)afz-epi afz A-epi cat	*C. nictitans*	Aerial Parts	[2]
3	epi cat-epi fis A-epi afz	*C. nictitans*	Aerial Parts	[2]
4	epi fis-epi cat A-epi fis	*C. nictitans*	Aerial Parts	[2]
5	epi fis-epi fis A-epi afz	*C. nictitans*	Aerial Parts	[2]
6	(epi)afz-(epi)afz-(epi)fis-(epi)gui	*C. nictitans*	Aerial Parts	[2]
7	(epi)afz-(epi)cat-(epi)afz	*C. nictitans*	Aerial Parts	[2]
8	(epi)afz-(epi)fis-(epi)fis	*C. nictitans*	Aerial Parts	[2]
9	(epi)cat-(epi)cat	*C. nictitans*	Aerial Parts	[2]
10	(epi)cat-(epi)fis-(epi)fis	*C. nictitans*	Aerial Parts	[2]
11	(epi)fis-A(epi)cat	*C. nictitans*	Aerial Parts	[2]
12	(epi)fis-A-(epi)fis-(epi)afz	*C. nictitans*	Aerial Parts	[2]

13	epi fis-epi afz	*C. nictitans*	Aerial Parts	[2]
14	(epi)fis-(epi)afz-(epi)gui	*C. nictitans*	Aerial Parts	[2]
15	(epi)fis(epi)cat	*C. nictitans*	Aerial Parts	[2]
16	epi)fis-(epi)cat-(epi)afz-(epi)gui	*C. nictitans*	Aerial Parts	[2]
17	epi)fis-(epi)cat-(epi)fis	*C. nictitans*	Aerial Parts	[2]
18	(epi)fis-(epi)cat-(epi)gui	*C. nictitans*	Aerial Parts	[2]
19	epi fis-epi fis-epi afz	*C. nictitans*	Aerial Parts	[2]
20	epi fis- epi fis- epi cat	*C. nictitans*	Aerial Parts	[2]
21	(epi)fis-(epi)fis-(epi)cat-(epi)fis	*C. nictitans*	Aerial Parts	[2]
22	(epi)fis-(epi)fis-(epi)fis-(epi)fis	*C. nictitans*	Aerial Parts	[2]
23	(epi)fis-(epi)fis-(epi)gui	*C. nictitans*	Aerial Parts	[2]
24	(epi)gui-(epi)afz	*C. nictitans*	Aerial Parts	[2]
25	(epi)gui-(epi)afz-(epi)fis-(epi)cat	*C. nictitans*	Aerial Parts	[2]
26	(epi)gui-(epi)cat	*C. nictitans*	Aerial Parts	[2]
27	(epi)gui-(epi)cat-(epi)cat	*C. nictitans*	Aerial Parts	[2]
28	(epi)gui-(epi)cat-(epi)fis	*C. nictitans*	Aerial Parts	[2]
29	(epi)gui-(epi)cat-(epi)gui	*C. nictitans*	Aerial Parts	[2]
30	(epi)gui-(epi)cat-(epi)gui-(epi)gui	*C. nictitans*	Aerial Parts	[2]
31	(epi)gui-(epi)fis-(epi)fis	*C. nictitans*	Aerial Parts	[2]
32	(epi)gui-(epi)fis-(epi)fis-(epi)fis	*C. nictitans*	Aerial Parts	[2]
33	p-Coumaric acid	*C. absus*	Seeds	[3]
34	Chlorogenic acid	*C. absus*	Seeds	[3]
35	Dihydroxyphenylacetic acid	*C. absus*	Seeds	[3]

36	Ellagic acid	*C. nictitans*	Aerial Parts	[2]
37	Ellagic acid pentoside	*C. nictitans*	Aerial Parts	[2]
38	Sinapic acid	*C. diphylla*	Leaves	[1]
39	Syringic acid	*C. absus*	Seeds	[3]
40	trans-2-Dihydroxycinnamic acid	*C. absus*	Seeds	[3]
41	Apigenin-6-C-hexosyl-(1→2) rhamnoside	*C. nictitans*	Aerial Parts	[2]
42	Apigenin-C-hexoside	*C. nictitans*	Aerial Parts	[2]
43	Apigenin hexoside	*C. nictitans*	Aerial Parts	[2]
44	Kaempferol-6-C-hexosyl-(1→2)- rhamnoside	*C. nictitans*	Aerial Parts	[2]
45	Kaempferol-6-C-hexosyl-(1→2)- rhamnoside isomer	*C. nictitans*	Aerial Parts	[2]
46	Kaempferol-O-(acetyl)hexoside pentoside	*C. nictitans*	Aerial Parts	[2]
47	Kaempferol-O-hexoside-O-rhamnosyl hexoside	*C. nictitans*	Aerial Parts	[2]
48	Kaempferol-O-rhamnosylhexosideO-acetate	*C. nictitans*	Aerial Parts	[2]
49	Cassiaoccidentalin A	*C. nictitans*	Aerial Parts	[2]
50	Cassiaoccidentalin A isomer	*C. nictitans*	Aerial Parts	[2]
51	Cassiaoccidentalin A isomer	*C. nictitans*	Aerial Parts	[2]
52	Cassiaoccidentalin B	*C. nictitans*	Aerial Parts	[2]
53	Fisetin	*C. nictitans*	Aerial Parts	[2]
54	Luteolin-6-C-hexosyl-(1→2)- rhamnoside	*C. nictitans*	Aerial Parts	[2]
55	Luteolin-6-C-hexosyl-(1→2)- rhamnoside isomer	*C. nictitans*	Aerial Parts	[2]
56	Luteolin-C-hexoside	*C. nictitans*	Aerial Parts	[2]

57	Luteolin dihexoside	*C. nictitans*	Aerial Parts	[2]
58	Luteolin hexoside	*C. nictitans*	Aerial Parts	[2]
59	Naphtoresorinol	*C.absus*	Seeds	[3]
60	Quercetin dihydrate	*C.absus*	Seeds	[3]
61	Quercetin hexoside	*C. nictitans*	Aerial Parts	[2]
62	Quercetin-O-hexoside	*C. nictitans*	Aerial Parts	[2]
63	Quercetin-O-hexoside-O-acetate	*C. nictitans*	Aerial Parts	[2]
64	Quercetin-O- rhamnosyl-(1→6)- hexoside	*C. nictitans*	Aerial Parts	[2]
65	Quercetin-O-rhamnoside-O-rhamnosylpentoside	*C. nictitans*	Aerial Parts	[2]
66	Quercetin pentoside	*C. nictitans*	Aerial Parts	[2]
67	Rhamnetin-O-(acetyl)hexoside	*C. nictitans*	Aerial Parts	[2]
68	Rhamnetin-O-hexosyl rhamnoside	*C. nictitans*	Aerial Parts	[2]
69	Rhamnetin-O-pentoside-hexosideO-acetate	*C. nictitans*	Aerial Parts	[2]
70	Resveratrol	*C. diphylla*	Leaves	[1]
71	Rutin trihydrate	*C.absus*	Seeds	[3]
72	(+)-Catechin 3-O-gallate	*C. hildebrandtii*	Leaves	[4]
73	2-(3,4 dihydroxyphenyl) 5,7-dihydroxy-8-[3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]chromen-4-one	*C. diphylla*	Leaves	[5]
74	2-methyl-6-nonylpiperidine	*C. hildebrandtii*	Leaves	[4]
75	5 -[4-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxyphenyl]chromen 4-one	*C. diphylla*	Leaves	[5]
76	5-Heneicosylresorcinol	*C. hildebrandtii*	Leaves	[4]
77	7-hydroxy-2,5-dimethyl 4H-chromen-4-one	*C. diphylla*	Leaves	[5]

78	Aloesol	*C. diphylla*	Leaves	[5]
79	Apigenin	*C. diphylla, C. nictitans*	Leaves	[5], [2]
80	Apiin	*C. duckeana*	Stems	[6]
81	Apigenina-7-O-galactopiranosido	*C. duckeana*	Fruits	[6]
82	Apigenin-5-rhamnoside	*C. duckeana*	Stems	[6]
83	Asteridoside L	*C. hildebrandtii*	Leaves	[6]
84	Kaempferol-3-O-β-D-glucopyranoside	*C. duckeana*	Stems and Fruits	[6]
85	Kaempferol-3-O-β-D-glucuronide	*C. duckeana*	Fruits	[6]
86	Carviolin isomer	*C. diphylla*	Leaves	[5]
87	Daidzin	*C. duckeana*	Stems	[6]
88	Delphinidin 3-O-(6"-acetyl-galactoside)	*C. hildebrandtii*	Leaves	[4]
89	Dihydrokaempferol	*C. diphylla*	Leaves	[5]
90	Dihydrokaempferol-3-glucuronide	*C. duckeana*	Stems	[6]
91	Stigmastanol ferulate	*C. hildebrandtii*	Leaves	[4]
92	Isorhamnetin-3-O-β-D-galactoside	*C. duckeana*	Stems	[6]
93	Isoorientin	*C. diphylla*	Leaves	[5]
94	Isovitexin	*C. rotundifolia, C. desvauxii, C. diphylla, C. nictitans*	Leaves	[34], [5],[2]
95	Isovitexin-O-pentoside	*C. diphylla*	Leaves	[5]
96	Isoxanthohumol	*C. hildebrandtii*	Leaves	[4]
97	Luteolin	*C. diphylla, C. nictitans*	Leaves	[5], [2]
98	Luteolin 6-C-glucoside	*C. hildebrandtii*	Leaves	[4]
99	Luteolin-7-O-glucoside	*C. diphylla*	Leaves	[5]
100	Luteolin-7-O-glucuronide ethyl ester	*C. duckeana*	Leaves	[6]
101	Medioresinol	*C. hildebrandtii*	Leaves	[4]

102	Naringenin	*C. diphylla*	Leaves	[5]
103	Oleoside 11-methyl ester	*C. hildebrandtii*	Leaves	[4]
104	Ononin	*C. duckeana*	Stems	[6]
105	Orientin	*C. diphylla*	Leaves	[5]
106	Orientin-O-hexoside	*C. diphylla*	Leaves	[5]
107	Pelargonidin 3-O-galactoside	*C. hildebrandtii*	Leaves	[4]
108	Pelargonidin 3-O-(6"-malonyl-glucoside)	*C. hildebrandtii*	Leaves	[4]
109	Petunidin 3-O-galactoside	*C. hildebrandtii*	Leaves	[4]
110	Petunidin 3-O-(6"-acetyl-galactoside)	*C. hildebrandtii*	Leaves	[4]
111	Procyanidin B2	*C. duckeana*	Fruits	[6]
112	Quercetin	*C. rotundifolia, C. desvauxii, C. nictitans*	Leaves	[34], [2]
113	Quercetin-3-galactoside-7-glucoside	*C. duckeana*	Stems	[6]
114	Quercetin-3-O-α-L-arabinopyranoside	*C. duckeana*	Leaves	[6]
115	Quercetin 3-O-β-D-glucopyranosiduronic acid	*C. duckeana*	Fruits	[6]
116	Rutaretin isomer	*C. diphylla*	Leaves	[5]
117	Viscumneoside II	*C. duckeana*	Fruits	[6]
118	Viscumneoside IV	*C. duckeana*	Leaves	[6]
119	Vitexin	*C. rotundifolia, C. desvauxii, C. diphylla*	Leaves	[34], [5]
120	Wogonoside	*C. duckeana*	Leaves	[6]
Sterols				
121	β-sitosterol	*C. absus*	Seeds	[3]
122	Δ-5-Avensterol	*C. absus*	Seeds	[3]
123	Δ-5-24, Stigmastadienol	*C. absus*	Seeds	[3]
124	Campesterol	*C. absus*	Seeds	[3]

125	Cycloartenol	*C. absus*	Seeds	[3]
126	Cholesterol	*C. absus*	Seeds	[3]
127	Stigmasterol	*C. absus*	Seeds	[3]
Fatty acids and aliphatic esters				
128	Arachidic acid	*C. absus*	Seeds	[3]
129	Alpha-linolenic acid	*C. absus*	Seeds	[3]
130	Diisooctyl ester 1, 2-benzenedicarboxylic acid	*C. nigrigans*	Leaves	[7]
131	2-Methyl-butanoic acid	*C. nigrigans*	Leaves	[7]
132	Gadoleic acid	*C. absus*	Seeds	[3]
133	n-Hexadecanoic acid	*C. absus, C. nigrigans*	Leaves, Seeds	[3], [7]
134	Lauric acid	*C. absus*	Seeds	[3]
135	Linoleic acid	*C. absus*	Seeds	[3]
136	Myristic acid	*C. absus*	Seeds	[3]
137	Nitric acid nonyl ester	*C. nigrigans*	Leaves	[7]
138	Methyl ester, (Z, Z, Z)-9, 12, 15-octadecatrienoic acid	*C. nigrigans*	Leaves	[7]
139	Octadecanoic acid	*C. absus, C. nigrigans*	Seeds, Leaves	[3], [7]
140	Oleic acid	*C. absus*	Seeds	[3]
Anthraquinones				
141	Chrysophanol	*C. nigrigans*	Leaves	[7]
142	Chrysophanol glucoside	*C. duckeana*	Fruits	[6]
143	Emodin	*C. diphylla, C. nigrigans*	Leaves	[5], [7]
144	Physcion	*C. nigrigans*	Leaves	[7]
Other compounds				
145	β-Amyrin	*C. absus*	Seeds	[3]
146	1H-2-benzopyran-1-one, 6,8-dihydroxy-3-methyl	*C. diphylla*	Leaves	[1]
147	2-hydroxyxanthiside	*C. duckena*	Fruits	[32]
148	4-C-Methyl-myo-inositol	*C. nigrigans*	Leaves	[7]

149	9,12,13-Tridihydroxy-10(E),15(Z)-octadecadienoic acid	*C. diphylla*	Leaves	[1]
150	9,12,13-Trihydroxy-octadec-10-enoic acid	*C. diphylla*	Leaves	[1]
151	24-methylene cycloartenol	*C. absus*	Seeds	[3]
152	Azelaic acid	*C. diphylla*	Leaves	[1]
153	Butanedioic acid 2-(4,4-dimethyl-2-methylene pentyl)	*C. diphylla*	Leaves	[1]
154	Hydroxyoctadecatrienoic acid	*C. diphylla*	Leaves	[1]
155	Cartomin	*C. duckena*	Fruits	[32]
156	Eupalinolide A	*C. duckena*	Stems and Fruits	[32]
157	Norlichexanthone	*C. diphylla*	Leaves	[1]
158	Torachrysone-8-hexosyl hexoside	*C. diphylla*	Leaves	[1]
159	Torachrysone-8-hexosyl pentoside isomer	*C. diphylla*	Leaves	[1]