

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in *Aspalathus linearis***

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Shoot	--	--		
0	1,2-DICHLOROBENZENE	Leaf Essent. Oil	--	--		
0	1-METHYLNAPHTHALENE	Leaf Essent. Oil	--	4000		
0	2,2,6-TRIMETHYL-CYCLOHEXANONE	Leaf Essent. Oil	--	3700		
1	2,3-DIHYDROBENZOFURAN	Leaf Essent. Oil	--	3200		
0	2,4-DIHYDROXY-ACETOPHENONE	Leaf Essent. Oil	--	2100		
0	2,4-DIMETHYLBENZALDEHYDE	Leaf Essent. Oil	--	1300		
0	2,6,6-TRIMETHYLCYCLOHEXENONE	Leaf Essent. Oil	--	7100		
0	2-METHOXY-2-BUTEN-4-OLIDE	Plant	--	--		
0	2-METHYL-HEPT-2-EN-4-ONE	Leaf Essent. Oil	--	5900		
0	2-METHYL-NAPHTHALENE	Leaf Essent. Oil	--	6800		
0	2-PENTYL-FURAN	Leaf Essent. Oil	--	1000		
0	2-PHENYLETHANOL	Plant	--	--		
0	3,4,5-TRIHYDROXYCINNAMIC-ACID	Shoot	--	--		
0	3,5,5-TRIMETHYLCYCLOHEX-3-EN-1-ONE	Leaf Essent. Oil	--	500		
0	3-METHYL-BUTANOIC-ACID	Plant	--	--		
0	4-BUTANOLIDE	Plant	--	--		
0	4-HYDROXY-BENZOIC-ACID	Shoot	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	5-HYDROXY-3',4',7-TRI-O-METHYL-LUTEOLIN	Shoot	--	--		
0	6,10,14-TRIMETHYLPENTADECANONE	Plant	--	--		
0	6-METHYL-HEPT-5-EN-2-ONE	Leaf Essent. Oil	--	39700		
0	6-METHYL-HEPTA-3,5-DIEN-2-ONE-ISOMER-A	Leaf Essent. Oil	--	51800		
0	6-METHYL-HEPTA-3,5-DIEN-2-ONE-ISOMER-B	Leaf Essent. Oil	--	1900		
16	ACETIC-ACID	Plant	--	--		
6	ACETOPHENONE	Leaf Essent. Oil	--	4000		
13	ALPHA-TERPINENE	Leaf Essent. Oil	--	--		
23	ALPHA-TERPINEOL	Leaf Essent. Oil	--	4200	-0.7797871552056034	
32	ALPHA-TOCOPHEROL	Plant	--	--		
5	ALUMINUM	Shoot	--	9900	1.0787185957210077	
112	ASCORBIC-ACID	Shoot	157	94000	4.1806764777423835	
0	ASH	Shoot	--	25000	-1.7963329752128847	
1	ASPALATHIN	Shoot	17	15000		
0	ASPALATHIN-BETA-D-GLUCOPYRANOSIDES	Shoot	--	--		
24	BENZALDEHYDE	Leaf Essent. Oil	--	15900	0.6952232834176496	
20	BENZOIC-ACID	Shoot	--	--		
0	BENZOIC-ACID-METHYL-ESTER	Leaf Essent. Oil	--	600		
0	BENZOTHAZOLE	Leaf Essent. Oil	--	3400		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	BENZYL-ALCOHOL	Leaf Essent. Oil	--	--		
0	BETA-CYCLOCITRAL	Leaf Essent. Oil	--	10200		
0	BETA-DAMISCENONE	Plant	--	--		
13	BETA-IONONE	Leaf	--	--		
0	BETA-PHENYLETHYLALCOHOL	Leaf Essent. Oil	--	40700		
3	BETA-TERPINEOL	Leaf Essent. Oil	--	4300		
35	BORNEOL	Leaf Essent. Oil	--	500	-0.6785540022451703	
102	CAFFEIC-ACID	Shoot	--	0.66	-0.703465468886938	
28	CALCIUM	Leaf	--	--		
28	CALCIUM	Shoot	--	2000	-0.9297794818295042	
28	CALCIUM	Plant	--	90	-1.443984393362664	
7	CHRYSOERIOL	Shoot	--	6.6	-0.7384459049265101	
18	CINNAMIC-ACID	Shoot	--	--		
0	DAMASCENONE	Leaf Essent. Oil	--	50500	1	
0	DELTA-VALEROLACTONE	Leaf Essent. Oil	--	400		
0	DIHYDROACTINIDIOLIDE	Leaf	--	--		
0	DIHYDROACTINIDIOLIDE	Plant	--	--		
0	DODECAN-1-AL	Leaf Essent. Oil	--	1000		
76	EUGENOL	Leaf Essent. Oil	--	13600	-1.0138787287413815	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FAT	Shoot	--	17000	-0.5582126582705272	
61	FERULIC-ACID	Shoot	--	0.66		
0	FLAVANOL-O-GLYCOSIDE	Shoot	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FLAVONOIDS	Leaf	--	--		
3	FLUORIDE	Plant	0.44	1.65	-0.5740115779302913	
62	GALLIC-ACID	Leaf	--	44000	0.6988544721314695	
62	GALLIC-ACID	Shoot	--	44000	1.4140081297693825	
2	GAMMA-NONALACTONE	Leaf Essent. Oil	--	3200		
0	GAMMA-OCTALACTONE	Leaf Essent. Oil	--	4200		
11	GAMMA-TERPINENE	Leaf Essent. Oil	--	--		
2	GERANYL-ACETONE	Plant	--	--		
18	GUAIACOL	Leaf Essent. Oil	--	240000		
18	GUAIACOL	Plant	--	--		
18	GUAIACOL	Leaf	--	--		
0	HEPT-1-EN-3-OL	Leaf Essent. Oil	--	2000		
0	HEPT-2-EN-1-AL	Leaf Essent. Oil	--	1500		
0	HEPT-2-EN-1-OL	Leaf Essent. Oil	--	5000		
0	HEPT-4-EN-1-AL	Leaf Essent. Oil	--	2000		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEPTA-2,4-DIEN-1-AL-ISOMER-A	Leaf Essent. Oil	--	24600		
0	HEPTA-2,4-DIEN-1-AL-ISOMER-B	Leaf Essent. Oil	--	27700		
0	HEPTAN-1-AL	Leaf Essent. Oil	--	1700		
0	HEPTAN-1-OL	Leaf Essent. Oil	--	500		
0	HEPTAN-2-OL	Leaf Essent. Oil	--	9600		
0	HEPTAN-2-ONE	Leaf Essent. Oil	--	6400		
0	HEPTAN-3-OL	Leaf Essent. Oil	--	6700		
0	HEPTAN-3-ONE	Leaf Essent. Oil	--	4700		
0	HEPTAN-4-OL	Leaf Essent. Oil	--	3900		
0	HEPTAN-4-ONE	Leaf Essent. Oil	--	2100		
0	HEXAN-1-OL	Leaf Essent. Oil	--	700		
0	HEXAN-1-OL-ACETATE	Leaf Essent. Oil	--	400		
0	HEXANE-2,5-DIONE	Leaf Essent. Oil	--	1500		
2	HEXANOIC-ACID	Plant	--	--		
0	HEXANOIC-ACID-METHYL-ESTER	Leaf Essent. Oil	--	600		
0	HOMOORIENTIN	Shoot	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	IRON	Shoot	--	3300	3.751125723153258	
6	IRON	Plant	--	14	-0.7218159135751593	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOBITEXIN	Shoot	--	--		
4	ISOORIENTIN	Shoot	--	--		
3	ISOQUERCETIN	Shoot	--	--		
22	ISOQUERCITRIN	Shoot	--	1	-1.1453747053075045	
4	ISOVITEXIN	Shoot	--	0.5		
60	LIMONENE	Leaf Essent. Oil	--	--		
53	LINALOOL	Leaf Essent. Oil	--	5400	-0.661654653443934	
0	LINALOOL-OXIDE	Leaf Essent. Oil	--	2000	-1.146764358161992	
78	LUTEOLIN	Shoot	0.66	1	-0.7054905387561778	
78	LUTEOLIN	Leaf	--	--		
65	MAGNESIUM	Shoot	--	3300	-0.5803607740011649	
65	MAGNESIUM	Plant	--	140	-1.2188549999457055	
65	MAGNESIUM	Leaf	--	--		
14	MANGANESE	Shoot	--	120	-0.9591769438559322	
0	METHYL-ETHYLMALIMIDE	Plant	--	--		
2	METHYL-PHENYLACETATE	Leaf Essent. Oil	--	7900		
22	MYRCENE	Leaf Essent. Oil	--	--		
1	NAPHTHALENE	Leaf Essent. Oil	--	4300		
0	NEROL-ACETATE	Leaf Essent. Oil	--	2000	-1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	NON-2-EN-1-AL	Leaf Essent. Oil	--	5200		
0	NONA-2,6-DIEN-1-AL	Leaf Essent. Oil	--	4200		
0	NONAN-1-AL	Leaf Essent. Oil	--	2800		
0	NONAN-2-ONE	Leaf Essent. Oil	--	1900		
1	NOTHOFAGIN	Shoot	--	--		
0	OCT-1-EN-3-OL	Leaf Essent. Oil	--	6400		
0	OCT-2-EN-1-AL	Leaf Essent. Oil	--	4900		
0	OCT-3-EN-2-ONE	Leaf Essent. Oil	--	4600		
0	OCTA-2,4-DIEN-1-AL	Leaf Essent. Oil	--	3000		
0	OCTA-3,5-DIEN-2-ONE-ISOMER-A	Leaf Essent. Oil	--	24200		
0	OCTA-3,5-DIEN-2-ONE-ISOMER-B	Leaf Essent. Oil	--	11500		
0	OCTAN-1-OL	Leaf Essent. Oil	--	2300		
0	OCTAN-2-OL	Leaf Essent. Oil	--	4100		
0	OCTAN-2-ONE	Leaf Essent. Oil	--	800		
0	OCTANOIC-ACID-METHYL-ESTER	Leaf Essent. Oil	--	1300		
4	ORIENTIN	Shoot	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
25	P-COUMARIC-ACID	Shoot	--	1	-0.7071067811865475	
8	P-CRESOL	Leaf Essent. Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	P-ETHYL-PHENOL	Leaf Essent. Oil	--	1600		
13	P-HYDROXY-BENZOIC-ACID	Shoot	--	--		
2	P-METHYL-ACETOPHENONE	Leaf Essent. Oil	--	5000		
0	P-METHYLBENZALDEHYDE	Leaf Essent. Oil	--	--		
26	PHENOL	Leaf Essent. Oil	--	700		
2	PHENYL-ACETALDEHYDE	Leaf Essent. Oil	--	17100		
0	PHOSPHATE	Shoot	--	1200		
0	PHOSPHATE	Plant	--	50		
14	POTASSIUM	Shoot	--	5600	-1.2816033932517448	
14	POTASSIUM	Plant	--	--		
14	POTASSIUM	Leaf	--	--		
0	PROTEIN	Shoot	--	69000	-1.2745985759367076	
0	PROTEIN	Plant	--	--		
43	PROTocatechuic-ACID	Shoot	--	2.6		
176	QUERCETIN	Plant	--	7.5	-1	
176	QUERCETIN	Shoot	--	1.3	-0.7538426844404754	
87	RUTIN	Shoot	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SAFRANAL	Leaf Essent. Oil	--	4000		



Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SALICYLALDEHYDE	Leaf Essent. Oil	--	1000		
0	SALICYLIC-ACID-METHYL-ESTER	Leaf Essent. Oil	--	4200		
1	SODIUM	Leaf	--	--		
0	SULFATE	Shoot	--	1100		
6	SYRINGIC-ACID	Shoot	--	--		
35	TANNIN	Shoot	--	44000	-0.8290380397657579	
71	THYMOL	Leaf Essent. Oil	--	2200	-1	
0	UNDECAN-1-AL	Leaf Essent. Oil	--	6200		
24	VANILLIC-ACID	Shoot	--	0.76		
0	VITAMIN-C	Leaf	--	--		