

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

**Chemicals Found in *Murraya koenigii***

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(E)-BETA-OCIMENE	Leaf	--	40	1.504389132845184	
0	(E,E)-2,4-HEPTADIENAL	Leaf	--	0.1	-1.00000000000000002	
0	(Z)-2-HEXENAL	Leaf	--	0.1		
0	(Z)-2-PENTENOL	Leaf	--	0.1		
0	(Z)-3-HEXENOL	Leaf	--	5	-0.04408444144618529	
0	(Z)-3-HEXENYL-ACETATE	Leaf	--	0.1		
0	(Z)-3-HEXENYL-BUTANOATE	Leaf	--	0.1		
0	1,2,4-TRIMETHYL-BENZENE	Leaf	--	0.1		
0	1-METHYL-2-(2-PROPENYL)-BENZENE	Leaf	--	2		
1	2,3-DIHYDROBENZOFURAN	Leaf	--	2		
0	2-ACETYL-FURAN	Leaf	--	0.1		
0	2-ETHYL-4-METHYLMALIMIDE	Leaf	--	0.1		
0	2-FURANCARBOXALDEHYDE	Leaf	--	2		
0	2-HYDROXY-6-METHYLCARBAZOLE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	2-METHYL-BUTANAL	Plant	--	--		
2	2-NONANONE	Leaf	--	0.1	-0.9999999999999999	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2-OCTANONE	Leaf	--	0.1		
0	3-(1,1-DIMETHYLALLYL)-XANTHYLETIN	Bark	--	--		
0	3-METHYL-BUT-2-EN-1-OL	Leaf	--	0.1		
0	3-METHYLCARBAZOLE	Root	--	--		Abstract (See species file)
0	6-METHYLHEP-5-EN-2-ONE	Leaf	--	0.1		
0	9-CARBETHOXY-3-METHYLCARBAZOLE	Root	--	--		Abstract (See species file)
0	9-FORMYL-3-METHYLCARBAZOLE	Root	--	--		Abstract (See species file)
0	ALPHA-COPAENE	Leaf	--	0.1	-0.35571488851770644	
0	ALPHA-CUBEBENE	Plant	--	--		
2	ALPHA-HUMULENE	Leaf	--	14	-0.444295299514232	
11	ALPHA-PHELLANDRENE	Leaf	23	6240	4.110948296184419	
28	ALPHA-PINENE	Leaf	--	9880	0.41691000636146197	
3	ALPHA-SELINENE	Leaf	--	25	-0.2926518261309644	
13	ALPHA-TERPINENE	Leaf	--	65	-0.2787745705152762	
23	ALPHA-TERPINEOL	Leaf	--	37	-0.5252992533925488	
0	ALPHA-THUJENE	Leaf	--	37	-0.24737281674281325	
3	AROMADENDRENE	Leaf	--	2	-0.618805663671702	
112	ASCORBIC-ACID	Leaf	40	445	-0.4026297674379776	
0	ASH	Leaf	15000	125000	0.1083256335033256	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ASPARAGINE	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
24	BENZALDEHYDE	Leaf	--	0.1	-0.4690464374285412	
26	BERGAPTEN	Seed	--	12	-0.8818833479288075	
6	BETA-BISABOLENE	Leaf	--	--	-0.4289453118130919	
53	BETA-CAROTENE	Leaf	60	225	-0.15807618341196314	
0	BETA-CARYOPHYLLENE	Leaf	23	7540	3.356893908580301	
5	BETA-ELEMENE	Leaf	5	155	0.3941412911960524	
0	BETA-GURJUNENE	Leaf	--	5460	2.2357601317561797	
3	BETA-PHELLANDRENE	Leaf	140	560	0.8732136284479584	
13	BETA-PINENE	Leaf	--	85	-0.3037553772094136	
3	BETA-SELINENE	Leaf	--	0.1	-0.523647805084174	
0	BETA-THUJENE	Plant	--	--		
0	BICYCLOMAHANIMBENE	Plant	--	--		
0	BICYCLOMAHANIMBICINE	Plant	--	--		
0	BICYCLOMAHANIMBICINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BICYCLOMAHANIMBINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
12	BORNYL-ACETATE	Leaf	--	0.1	-0.4100994792324055	
4	CADINENE	Leaf	--	4730	1	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CADINOL	Leaf	--	3330	1.4142027531663075	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CADVIROL	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
28	CALCIUM	Leaf	8100	30035	0.7924516881433465	
9	CAMPHENE	Leaf	--	5	-0.19080294405308876	
0	CARBAZOLE	Plant	--	--		
0	CARBOHYDRATES	Leaf	141000	665000	0.422684143085375	
37	CARVACROL	Leaf	--	0.1	-0.5962346722715234	
31	CARYOPHYLLENE	Leaf	--	6840	3.1471993644672898	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CIS-JASMONE	Leaf	--	2	-0.8522269507270197	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CIS-LINALOOL-OXIDE	Leaf	--	0.1	-0.7256131529794739	
0	CIS-SABINENE-HYDRATE	Leaf	--	12	-0.31594152750356486	
0	CIS-SABINOL	Leaf	--	0.1	1.0000000000000002	
0	CURRYANGIN	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	CURRYANGINE	Plant	--	--		
0	CURRYANIN	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	CURRYANINE	Plant	--	--		
0	CYCLOMAHANIMBENE	Plant	--	--		
0	CYCLOMAHANIMBINE	Plant	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	D-ALPHA-PINENE	Leaf	--	1430		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	D-ALPHA-TERPINEOL	Leaf	--	830		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	D-SABINENE	Leaf	--	2390		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
9	DELTA-CADINENE	Leaf	--	14	-0.4031370360022197	
7	DIPENTENE	Leaf	--	1770		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	EO	Leaf	2300	26000	1.272335920147473	
0	ETHYLBENZENE	Leaf	--	0.1		
0	FAT	Leaf	10000	63000	0.1302791389536896	
15	FIBER	Leaf	64000	190000	0.352003352366896	
22	GABA	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GAMMA-CADINENE	Leaf	--	--	-0.4883051358801179	
0	GAMMA-ELEMENE	Leaf	--	230	1.8562466903958217	
11	GAMMA-TERPINENE	Leaf	--	115	-0.15018994823601897	
0	GIRINIMBINE	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	GLUBULOL	Leaf	--	2		
3	HEXANOL	Leaf	--	0.1	-0.6009262258474473	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	IRON	Leaf	30	115	-0.6290833254574307	
0	ISOHERACLENIN	Seed	--	6.4		
8	ISOIMPERATORIN	Seed	--	21	-1	
0	ISOMAHANIMBENE	Plant	--	--		
0	ISOMAHANIMBINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
15	ISOPIMPINELLIN	Seed	--	7	1	
3	ISOSAFROLE	Leaf	--	1145	1	
0	KILOCALORIES	Leaf	880	3260	0.3899503492154586	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	KOENIGICINE	Plant	--	--		
0	KOENIGICINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	KOENIGINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	KOENIGINE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	KOENIMBIDINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	KOENIMBINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	KOENIMBINE	Plant	--	--		
0	KOENINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	KOENINE	Plant	--	--		
7	LAURIC-ACID	Leaf	--	700	1.1951153614758205	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	LAVANDULYL-ACETATE	Leaf	--	20		
60	LIMONENE	Leaf	--	115	-0.32680414001148905	
53	LINALOOL	Leaf	--	14	-0.6377490212124352	
0	MAHANIMBENE	Plant	--	--		



Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MAHANIMBICINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	MAHANIMBICINE	Plant	--	--		
0	MAHANIMBIDENE	Plant	--	--		
1	MAHANIMBINE	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	MAHANIMBININE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	MAHANIMBOLINE	Root	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
1	MAHANINE	Plant	--	--		
1	MAHANINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
21	METHYL-SALICYLATE	Leaf	--	0.1	-0.7215595738818176	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MUKANOL	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	MUKOEIC-ACID	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	MUKONICINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	MUKONICINE	Plant	--	--		
0	MUKONINE	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	MURRAYACINE	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MURRAYACININE	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	MURRAYANINE	Bark	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	MURRAYANINE	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	MURRAYAZOLIDINE	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	MURRAYAZOLINE	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	MURRAYAZOLININE	Bark	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
22	MYRCENE	Leaf	--	53	-0.15355035997883854	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	NAPHTHALENE	Leaf	--	9		
11	NEROLIDOL	Leaf	--	2	-0.7169278666603546	
5	NERYL-ACETATE	Leaf	--	0.1	-1.6643472224031552	
39	NIACIN	Leaf	23	85	-0.15205422255204007	
5	ORNITHINE	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	OXALATES	Leaf	--	13500	-0.40633330847471666	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
9	OXALIC-ACID	Leaf	--	1320	-0.43744803439189367	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
6	OXYPEUCEDANIN	Seed	--	3	-1	
0	P-CYMEN-8-OL	Leaf	--	0.1	-0.8507315974280412	
16	P-CYMENE	Leaf	--	23	-0.3810051616116405	
0	P-VINYL-GUAIACOL	Leaf	--	2		
13	PALMITIC-ACID	Leaf	--	885	-0.3738330872895457	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	PHOSPHORUS	Leaf	6000	17800	2.36028529742043	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	POTASSIUM	Leaf	--	8000	-0.9866644832416266	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	POTASSIUM	Twig	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PROTEIN	Leaf	61000	359000	1.4680128172976137	
15	RIBOFLAVIN	Leaf	--	8	-0.14036163828851098	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	SABINENE	Leaf	--	11700	7.193324434727864	
3	SCOPOLIN	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
0	SPATHULENOL	Leaf	--	5	-0.7413753072842936	
23	TERPINEN-4-OL	Leaf	--	140	-0.26038381343088834	
9	TERPINOLENE	Leaf	--	25	-0.20024773699623308	
31	THIAMIN	Leaf	--	3	-1.1055108200879633	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	TRANS-LINALOOL-OXIDE	Leaf	--	2	-1.292977275547167	
0	TRANS-SABINENE-HYDRATE	Leaf	--	9	-0.5289186239817404	
0	WATER	Leaf	663000	730000	-0.38733298355171886	
0	XYLENE	Leaf	--	0.1		