

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Oryza sativa*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	(+)-DEHYDROVOMIFOLIOL	Petiole		1.0		--
0	1-RHAMNONO-1,4-LACTONE	Plant				--
0	12(S),13(S)-EPOXY-11(R)-HYDROXY-OCTADECA-CIS-9,CIS15-DIEN-1-OIC-ACID	Shoot		0.9		--
0	12(S),13(S)-EPOXY-11(S)-HYDROXY-OCTADECA-CIS-9,CIS15-DIEN-1-OIC-ACID	Shoot		0.4		--
0	15,16-DIHYDROCORONARIC-ACID	Shoot		0.8		--
0	2,4-DINITROPHENYLHYDRAZONE	Seed				--
0	2-C-HYDROXY-METHYL-D-ERYTHRONO-1,4-LACTONE	Plant				--
0	2-C-METHYL-D-ERYTHRONO-1,4-LACTONE	Plant				--
0	2-DEOXY-D-LYXONO-1,4-LACTONE	Plant				--
0	24-METHYL-24-METHOXYCYCLOARTANOL	Plant				--
5	24-METHYLENE-CYCLOARTANOL	Plant				--
0	25-ETHOXY-24-METHOXYCYLCOARTANOL	Plant				--
0	25-HYDROXY-24-METHOXYCYCLOARTANOL	Plant				--
0	3-DEOXY-D-ARABINOHEXONO-1,4-LACTONE	Plant				--
0	5'O-(BETA-D-GLUCOPYRANOSYL)-PYROXIDINE	Fruit				--
0	9,10-DIOXYSTEARIC-ACID	Plant				--
6	ACETALDEHYDE	Plant				--
3	ACETONE	Plant				--
11	ADENINE	Seed				--
12	ALLANTOIN	Seed				--
0	ALPHA-GLUCAN	Tissue Culture				--
32	ALPHA-TOCOPHEROL	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	AMYLOSE	Seed	0.0	131075.0	1.4142135623730951	--
1	ANTHERAXANTHIN	Plant				--
0	ARABINOSE	Seed				--
0	ARACHIDIC-ACID	Seed				--
2	ARSENIC	Seed		0.211	1.5951685300488623	--
0	ARUNDOIN	Shoot				--
112	ASCORBIC-ACID	Seed				--
0	ASH	Seed	7000.0	57000.0	0.2743045673616218	--
0	ASH	Plant	75000.0	185800.0	1.17044840101269	--
2	ASPARAGINE	Juice				--
3	ASPARTIC-ACID	Hay				--
1	BEHENIC-ACID	Seed				--
53	BETA-CAROTENE	Seed				--
0	BETA-CYCLOORYSTENOL	Seed				--
47	BETA-SITOSTEROL	Sprout Seedling				--
47	BETA-SITOSTEROL	Juice				--
0	BUTANAL	Plant				--
3	CADMIUM	Seed		0.18	-0.25689996156193823	--
28	CALCIUM	Seed	71.0	364.0	-0.6946712393018217	--
28	CALCIUM	Plant	1900.0	3300.0	-1.1006215509188604	--
2	CAMPESTEROL	Plant				--
0	CARBOHYDRATES	Plant	420000.0	478000.0	-1.251678356200235	--
0	CARBOHYDRATES	Seed	734000.0	892000.0	1.4648817782331274	--
1	CARLinoside	Leaf				--
0	CASTASTERONE	Protoplast		13.6		--
0	CELLOPENTAOSYLSITOSTEROL	Plant				--
0	CELLOTETRAOSYLSITOSTEROL	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
1	CELLULOSE	Plant	340000.0	534600.0	1.878590737597453	--
1	CELLULOSE	Petiole	190000.0	210000.0		--
0	CERAMIDE	Shoot		15.0		--
0	CERYL-CEROTATE	Fruit				--
20	CHOLINE	Seed		880.0	-0.7457854239115329	--
0	CHRYSANTHEMIN	Plant				--
0	COPROSTAN	Plant				--
0	CORONARIC-ACID	Shoot		0.1		--
0	CYANIDIN-5-GLYCOSIDE	Leaf				--
0	CYANIDIN-DIGLYCOSIDE	Leaf				--
0	CYANIDIN-MONOGLYCOSIDE	Leaf				--
5	CYANIN	Plant				--
0	CYCLOARTANOL	Plant				--
7	CYCLOARTENOL	Plant				--
0	CYCLOBRANOL	Plant				--
3	CYCLOEUCALENOL	Seed				--
0	CYLINDRIN	Shoot				--
13	CYSTEINE	Plant				--
0	D-ALANYL-D-ALANINE	Leaf				--
0	D-ALANYL-GLYCINE	Leaf				--
0	D-ARABINO-1,4-LACTONE	Plant				--
0	D-ERYTHRONO-1,4-LACTONE	Plant				--
0	D-LYXONO-1,4-LACTONE	Plant				--
0	DESOXYCORTICOSTEROL	Plant				--
0	DEXTRIN	Seed	15600.0	20500.0		--
0	DIGLYCOSYL-CERAMIDE	Shoot		2.0		--
0	DIHYDRO-BETA-SITOSTEROL	Petiole				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	DIMETHYL-AMINE	Seed				--
0	DNA-POLYMERASE	Tissue Culture				--
0	DOLICHOSTERONE	Protoplast		8.4		--
5	ERGOSTEROL	Sprout Seedling				--
0	ESTERASE	Plant				--
0	FAT	Seed	15000.0	27000.0	-1.255672714114354	--
0	FAT	Plant	9000.0	15000.0	-0.5363375309297539	--
61	FERULIC-ACID	Plant				--
15	FIBER	Seed	8000.0	121000.0	-0.10879993730972154	--
15	FIBER	Plant	334000.0	350000.0	0.9403887658445301	--
6	FURFURAL	Petiole	90000.0	100000.0		--
0	GAMMA-SITOSTEROL	Sprout Seedling				--
14	GAMMA-TOCOPHEROL	Seed				--
7	GLUCOSE	Seed	14500.0	26500.0	0.1017379479496296	--
0	GLUCOTRICIN	Plant				--
8	GLUTAMIC-ACID	Hay				--
12	GLYCINE	Plant				--
6	GUANIDINE	Seed				--
1	GUANINE	Seed				--
5	HEXANAL	Plant				--
3	HEXANOL	Plant				--
0	HYPOXANTHINE	Plant				--
0	INDOLE-3-ACETIC-ACID-MYOINOSITOL	Seed		4.5		--
0	INEKETONE	Petiole		0.003		--
6	IRON	Seed	14.0	85.0	-0.3056949154022057	--
0	ISOARBORINOL	Shoot				--
0	ISOCERYL-ISOCEROTATE	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
16	ISOEUGENOL	Plant				--
3	ISOLEUCINE	Hay				--
0	ISOSCOPARIN-2'-GLUCOSIDE	Plant				--
0	ISOSCOPARIN-2'-GLUCOSIDE-6''-FERULIC-ESTER	Plant				--
0	ISOSCOPARIN-2'-GLUCOSIDE-6''-P-COUMARIC-ESTER	Plant				--
0	KERACYANIN	Plant				--
0	KILOCALORIES	Seed	3410.0	4100.0	-0.5938556383361421	--
0	LEAD	Seed		0.9	-0.44545068276647354	--
20	LECITHIN	Plant				--
2	LEUCINE	Hay				--
13	LIGNIN	Plant	45000.0	255300.0	0.6921533291790163	--
1	LIGNOCERIC-ACID	Seed				--
27	LINOLEIC-ACID	Seed	6600.0	11880.0	-0.8160445962099575	--
0	LINOLENIC-ACID	Seed				--
15	LUTEIN	Plant				--
4	LYSINE	Hay				--
1	LYSOLECITHIN	Seed				--
65	MAGNESIUM	Plant	1100.0	2200.0	-0.5793608934861032	--
1	MERCURY	Seed		0.167	0.29845806205818587	--
15	METHIONINE	Plant				--
0	MOMILACTONE-A	Petiole		4.0		--
0	MOMILACTONE-B	Petiole		1.0		--
0	MOMILACTONE-C	Plant				--
0	MONOGLYCOSYL-CERAMIDE	Shoot		250.0		--
0	MYRICYL-CEROTATE	Fruit				--
0	NAPHTHALINE	Sprout Seedling				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	NEOCARLINOSIDE	Plant				--
1	NEOSCHAFTOSIDE	Leaf				--
2	NEOXANTHIN	Plant				--
39	NIACIN	Seed	40.0	65.0	0.6619614710877286	--
3	NICKEL	Seed		1.632	-0.5968299278537603	--
1	NICOTIANAMINE	Sprout Seedling				--
18	OLEIC-ACID	Seed	4500.0	8100.0	-0.9125134555320537	--
0	ORYZABRANS	Seed				--
0	ORYZALEXIN-A	Leaf	1.0	1.4		--
0	ORYZALEXIN-B	Leaf		0.6		--
0	ORYZALEXIN-C	Leaf		5.4		--
0	ORYZALEXIN-D	Leaf				--
0	ORYZANOL-A	Seed				--
0	ORYZANOL-B	Seed				--
0	ORYZANOLE	Plant				--
0	ORYZARANS	Root				--
0	ORYZAROL	Stem				--
0	ORYZENIN	Seed				--
9	OXALIC-ACID	Seed		46.0	-0.665731071264505	--
12	P-AMINOBENZOIC-ACID	Plant				--
25	P-COUMARIC-ACID	Petiole		0.9		--
13	P-HYDROXY-BENZOIC-ACID	Plant				--
13	PALMITIC-ACID	Seed	1800.0	3240.0	-0.6327493366692233	--
1	PANGAMIC-ACID	Petiole				--
11	PANTOTHENIC-ACID	Seed	6.0	17.0	0.026882779342101273	--
0	PELARGONIC-ACID	Plant				--
0	PENTANAL	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	PENTOSANS	Plant		209000.0	0.9100079231294709	--
4	PHOSPHORUS	Seed	528.0	5588.0	0.0620074671795556	--
4	PHOSPHORUS	Plant	600.0	3478.0	-0.05317465610198457	--
0	PHYTIN	Seed				--
0	PHYTIN-PHOSPHORUS	Seed	211.0	2235.0	0.6856065892013916	--
0	PHYTOCEREBROSIDE	Plant				--
14	POTASSIUM	Seed	1000.0	2431.0	-0.891663999037337	--
14	POTASSIUM	Plant	12000.0	12600.0	-0.6414067491432748	--
0	PRIMULIN	Seed				--
0	PROPANAL	Plant				--
0	PROTEIN	Seed	58000.0	85000.0	-1.3236180788428549	--
0	PROTEIN	Plant	34000.0	45000.0	-1.0527678817886632	--
0	PROTEIN	Hay				--
43	PYRIDOXINE	Seed	4.0	10.0	0.9653072991634226	--
1	QUINIC-ACID	Leaf				--
0	RHAMNOGALACTURONAN-I	Tissue Culture				--
15	RIBOFLAVIN	Seed	0.5	0.7	-1.0823929498985099	--
0	RIBOTIDE-CIS-ZEATIN	Root				--
0	RIBOTIDE-TRANS-ZEATIN	Root				--
0	SATIVIC-ACID	Sprout Seedling				--
1	SCHAFTOSIDE	Leaf				--
1	SERINE	Plant				--
14	SHIKIMIC-ACID	Leaf				--
0	SILICA	Plant		140000.0	1.3350996146640455	--
1	SILICIC-ACID	Leaf				--
1	SODIUM	Seed	90.0	939.0	0.7748692106587315	--
1	SODIUM	Plant		3500.0	-0.11033102759800023	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
10	SQUALENE	Seed				--
5	STARCH	Seed	722000.0	749000.0	1.7770468558505592	--
8	STEARIC-ACID	Seed	150.0	270.0	-0.5595319571095223	--
12	STIGMASTEROL	Juice				--
14	SUCROSE	Seed	3000.0	4800.0	-0.6296023412117899	--
14	SULFUR	Plant		1000.0	-1.215569358934881	--
0	TARAXANTHIN	Plant				--
31	THIAMIN	Seed	2.2	3.9	-0.6403921875557287	--
4	THREONINE	Hay				--
0	TOCOPHERONE	Wax				--
2	TRANS-ACONITIC-ACID	Shoot				--
0	TRIACONTANOL-(1)	Sprout Seedling				--
9	TRICIN	Plant				--
9	TRICIN	Petiole		0.066		--
0	TRICIN-5-GLUCOSIDE	Plant				--
0	TRICIN-5-O-BETA-D-GLUCOSIDE	Plant				--
0	TRIGLYCOSYL-CERAMIDE	Shoot		1.0		--
15	TRIGONELLINE	Sprout Seedling				--
1	TRIMETHYLAMINE	Seed				--
8	TYROSINE	Plant				--
0	UNDECYLIC-ACID	Plant				--
0	URACIL	Seed				--
3	VALINE	Hay				--
24	VANILLIC-ACID	Plant				--
0	VERNOLIC-ACID	Shoot		0.1		--
0	VIOLANTHIN	Plant				--
2	VIOLAXANTHIN	Plant				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	WATER	Seed		103000.0	-0.4781694174621389	--
1	XANTHINE	Plant				--
3	XANTHOPHYLL	Plant				--
3	XYLOSE	Seed				--