

# P **Alpinia galanga**

## Common Name(s)

Greater Galangal, Languas, Siamese Ginger

## How Used

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Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	(+)-PINENE	Rhizome Essent. Oil	--	--	
0	(Z)-BETA-OCIMENE	Leaf	--	1705	1.4142018319896454
0	(Z)-BETA-OCIMENE	Rhizome	8	985	
3	1'-ACETOXY-EUGENOL-ACETATE	Root	--	--	
3	1'-ACETOXY-EUGENOL-ACETATE	Fruit	--	47	
3	1'-ACETOXY-EUGENOL-ACETATE	Rhizome	--	130	
3	1'-ACETOXY-EUGENOL-ACETATE	Seed	--	570	
5	1'-ACETOXYCHAVICOL-ACETATE	Rhizome	770	27300	
5	1'-ACETOXYCHAVICOL-ACETATE	Root	--	--	
5	1'-ACETOXYCHAVICOL-ACETATE	Fruit	--	--	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	1'-ACETOXYCHAVICOL-ACETATE	Leaf	--	--	
5	1'-ACETOXYCHAVICOL-ACETATE	Seed	960	15000	
0	1'-HYDROXYCHAVICOL-ACETATE	Rhizome	--	--	
0	1,8-CINEOL	Rhizome Essent. Oil	1300	300000	
0	1,8-CINEOL	Leaf Essent. Oil	--	1300	-1.0111494433063628
67	1,8-CINEOLE	Leaf	--	10	-0.528938235441155
67	1,8-CINEOLE	Rhizome	1	22700	1.8327934816656402
0	2-METHYL-PROPAN-1-OL-ACETATE	Rhizome	--	--	
3	4-HYDROXYBENZALDEHYDE	Rhizome	--	30	
0	7-HEPTADECANE	Seed	--	--	Wealth of India.
0	8,17-EPOXY-LABD-TRANS-12-ENE-15,16-DIAL	Seed	--	--	
0	8-BETA-17-EPOXY-LABD-TRANS-2-ENE-15,16-DIAL	Root	--	13	
0	8-BETA-17-EPOXY-LABD-TRANS-2-ENE-15,16-DIAL	Seed	--	149	
0	AFRAMODIAL	Seed	--	10	-1
3	ALANINE	Leaf	--	--	
0	ALPHA-BERGAMOTENE	Rhizome	--	--	
0	ALPHA-COPAENE	Rhizome	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	ALPHA-HUMULENE	Rhizome	--	--		
28	ALPHA-PINENE	Rhizome	5	555	0.2020305089104413	
28	ALPHA-PINENE	Rhizome	--	11600	-0.48077129547612496	
		Essent. Oil				
28	ALPHA-PINENE	Leaf	--	11600	-0.6893411812730241	
		Essent. Oil				
28	ALPHA-PINENE	Leaf	--	900	-0.16611243060616598	
23	ALPHA-TERPINEOL	Rhizome	--	--		
3	AR-CURCUMENE	Rhizome	--	--		
14	ARGININE	Leaf	--	--		
112	ASCORBIC-ACID	Rhizome	260	1844	1.9734671239129031	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Rhizome	10000	71000	-0.6868308798699451	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	ASPARTIC-ACID	Leaf	--	--		
0	BASSORIN	Rhizome	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	BETA-BISABOLENE	Rhizome	2	7775	1	
6	BETA-BISABOLENE	Leaf	--	5700	-0.9926246807613248	
		Essent. Oil				

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
6	BETA-BISABOLENE	Rhizome Essent. Oil	--	5700	-1
6	BETA-BISABOLENE	Leaf	--	305	-0.09668384915000608
53	BETA-CAROTENE	Rhizome	15	108	1.413458979716062 CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	BETA-CARYOPHYLLENE	Rhizome Essent. Oil	--	1100	1
0	BETA-CARYOPHYLLENE	Leaf	--	350	-0.1634629715862706
0	BETA-CARYOPHYLLENE	Rhizome	--	50	1
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil	--	1100	-0.3994527618742238
0	BETA-FARNESENE	Rhizome Essent. Oil	--	9400	
0	BETA-FARNESENE	Leaf Essent. Oil	--	9400	1
13	BETA-PINENE	Leaf	--	170	-0.17838109246360231
13	BETA-PINENE	Leaf Essent. Oil	--	0.1	-1.022967739867963
13	BETA-PINENE	Rhizome	1	20	-1.3074028933658497

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Rhizome	--	400	-1.1990012482664167
		Essent.			
		Oil			
5	BETA-SESQUIPHELLANDRENE	Rhizome	--	--	
35	BORNEOL	Leaf	--	41300	-0.12057610587426763
		Essent.			
		Oil			
35	BORNEOL	Leaf	--	410	0.03200307936239706
35	BORNEOL	Rhizome	--	--	
0	BORNEOL-ACETATE	Leaf	--	13800	-0.4742544201806411
		Essent.			
		Oil			
0	BORNEOL-ACETATE	Rhizome	--	--	
12	BORNYL-ACETATE	Leaf	--	140	-0.33354981377671333
0	BUTAN-1-OL-ACETATE	Rhizome	--	--	
4	CADINENE	Rhizome	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
28	CALCIUM	Rhizome	310	2199	-1.029035889419005
					CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
9	CAMPHENE	Rhizome	--	--	
41	CAMPHOR	Rhizome	--	--	
		Essent.			
		Oil			

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
41	CAMPHOR	Rhizome	--	--		
0	CARBOHYDRATES	Rhizome	117000	830000	0.7250411671294028	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CARVEOL-I	Rhizome	--	--		
0	CARVEOL-II	Rhizome	--	--		
0	CARYOPHYLLENE-I	Seed	--	--		
8	CARYOPHYLLENE-OXIDE	Leaf Essent. Oil	--	10400	0.3753129945230765	
8	CARYOPHYLLENE-OXIDE	Rhizome	--	--		
8	CARYOPHYLLENE-OXIDE	Leaf	--	100	-0.021104757556764116	
8	CARYOPHYLLENE-OXIDE	Seed	--	--		
0	CARYOPHYLLENOL-I	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	CARYOPHYLLENOL-II	Seed	--	--		
3	CHAVICOL	Rhizome	--	--		
0	CHAVICOL-ACETATE	Rhizome	--	--		
0	CINEOLE	Rhizome	80	14400		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	CINNAMIC-ACID-METHYL-ESTER	Rhizome Essent. Oil	--	480000		

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	CIS-BETA-OCIMENE	Leaf Essent. Oil	--	20500		
0	CIS-BETA-OCIMENE	Rhizome Essent. Oil	--	20500		
0	CITRONELLOL-ACETATE	Rhizome	--	--		
0	D-PINENE	Rhizome	--	--		
0	DI-(P-HYDROXY-CIS-STYRYL)-METHANE	Rhizome	--	5		
0	EO	Leaf	--	10000	-0.13502102138741875	
0	EO	Rhizome	400	48000	0.028787012954727756	
76	EUGENOL	Rhizome	100	12000	1.414174489403805	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	EUGENOL-ACETATE	Rhizome	--	--		
5	EUGENOL-METHYL-ETHER	Rhizome	--	--		
0	FAT	Rhizome	4000	28000	-0.3793278967226343	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	FIBER	Rhizome	31000	220000	0.4658566512295148	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GALANAL-A	Seed	--	--		
0	GALANAL-A	Rhizome	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	GALANAL-B	Seed	--	--	
0	GALANAL-B	Rhizome	--	--	
13	GALANGIN	Rhizome	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	GALANGIN	Root	--	--	
0	GALANGIN-3-METHYL-ETHER	Root	--	--	
0	GALANGIN-METHYL-ETHER	Rhizome	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GALANGOL	Rhizome	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	GALANOLACTONE	Seed	--	22	
11	GAMMA-TERPINENE	Rhizome	--	--	
0	GERANIOL-ACETATE	Rhizome	--	--	
8	GLUTAMIC-ACID	Leaf	--	--	
12	GLYCINE	Leaf	--	--	
7	HISTIDINE	Leaf	--	--	
6	IRON	Rhizome	21	149	-0.6337895628464192 CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	ISOLEUCINE	Leaf	--	--	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	KAEMPFERIDE	Rhizome	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	LABDA-8(17),12-DIENE-15,16-DIAL	Seed	--	--	
2	LEUCINE	Leaf	--	--	
60	LIMONENE	Rhizome	1	165	-0.8992219200540644
60	LIMONENE	Rhizome	--	3500	-0.6357397413333852
		Essent. Oil			
60	LIMONENE	Leaf	--	50	-0.3951841849503761
60	LIMONENE	Leaf	--	0.4	-0.6782227076561912
		Essent. Oil			
53	LINALOOL	Rhizome	--	--	
4	LYSINE	Leaf	--	--	
15	METHIONINE	Leaf	--	--	
5	METHYL-CINNAMATE	Rhizome	192	23040	
22	MYRCENE	Rhizome	--	945100	1
		Essent. Oil			
22	MYRCENE	Leaf	--	5235	1.7163875913621174
22	MYRCENE	Rhizome	3	45365	1

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
22	MYRCENE	Leaf Essent. Oil	--	945100	3.3129178351863113	
0	N-HEPTADECENE	Seed	--	--		
0	N-TRIDECANE	Rhizome	--	--		
0	NEROL-ACETATE	Rhizome	--	--		
39	NIACIN	Rhizome	10	71	-0.858429840924418	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
16	P-CYMENE	Rhizome	--	--		
0	P-CYMENOL	Rhizome	--	--		
0	P-HYDROXYCINNAMALDEHYDE	Rhizome	--	100		
0	PENTADECANE	Rhizome	--	--		
0	PENTADECANE	Seed	--	--		Wealth of India.
7	PHENYLALANINE	Leaf	--	--		
0	PHLOBAPHEN	Rhizome	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	PHOSPHORUS	Rhizome	250	1773	-1.6394770420886036	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROLINE	Leaf	--	--		
0	PROTEIN	Rhizome	10000	71000	-0.8051016512056206	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	RESIN	Rhizome	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	RIBOFLAVIN	Rhizome	--	1	-1.089628007825215 CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	SABINENE	Rhizome	--	--	
0	SANTALENE	Rhizome	--	--	
1	SERINE	Leaf	--	--	
5	STARCH	Rhizome	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
23	TERPINEN-4-OL	Rhizome	--	--	
23	TERPINEN-4-OL	Plant	--	--	Abstract (See species file)
9	TERPINOLENE	Rhizome	--	--	
31	THIAMIN	Rhizome	1	4	-0.7518094115561123 CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	THREONINE	Leaf	--	--	
0	TRANS-3,4-DIMETHOXYCINNAMYL-ALCOHOL	Root	--	--	Abstract (See species file)
0	TRANS-4-HYDROXYCINNAMALDEHYDE	Plant	--	--	Abstract (See species file)
0	TRANS-4-METHOXYCINNAMYL-ALCOHOL	Plant	--	--	Abstract (See species file)
2	TRANS-BETA-FARNESENE	Rhizome	4	8735	1
2	TRANS-BETA-FARNESENE	Leaf	--	130	1.1005355214306811

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	TRANS-CINNAMIC-ACID	Essential Oil	--	--		
0	TRANS-CONIFERYL-DIACETATE	Rhizome	--	14		
0	TRANS-LABD-8(17),12-DIENE-15,16-DIAL	Seed	--	111		
0	TRANS-P-COUMARYL-DIACETATE	Rhizome	--	150		
29	TRYPTOPHAN	Leaf	--	--		
8	TYROSINE	Leaf	--	--		
3	VALINE	Leaf	--	--		
0	WATER	Rhizome	859000	859000	0.7689347486732349	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	WAX	Rhizome	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.