

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

**Chemicals found in *Acacia farnesiana***

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CARBOHYDRATES	Seed	730000.0	770000.0	0.9800291311468579	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Seed	209000.0	550000.0	2.8127977344445859	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	TANNINS	Fruit	110000.0	322000.0	2.5553598458512568	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	CARBOHYDRATES	Leaf	90000.0	484200.0	-1.0151486657995317	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Leaf	80000.0	430000.0	2.1763064193199195	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Leaf	57000.0	306000.0	1.786476373006545	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FAT	Seed	20000.0	78000.0	-0.9870374714555853	--
0	NITROGEN	Leaf	12800.0	68800.0	1.2507839376624452	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
27	LINOLEIC-ACID	Seed	12800.0	50000.0	-0.48942865171816513	--
8	GLUTAMIC-ACID	Leaf	10080.0	54070.0	0.8730215200517875	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Leaf	10000.0	53800.0	-1.146130957061661	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
14	ARGININE	Leaf	7360.0	39480.0	1.3871175969782887	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	ASPARTIC-ACID	Plant	7040.0	37770.0	1.3374636299085358	--
0	FAT	Leaf	6000.0	32280.0	-0.48187178239214123	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	LEUCINE	Leaf	6000.0	32190.0	2.414102856680727	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	EO	Flower	5000.0	50000.0	1.241286294843234	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
18	OLEIC-ACID	Seed	4200.0	16000.0	-0.847570817071624	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PROLINE	Leaf	4080.0	21890.0	1.5418615186449842	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
28	CALCIUM	Seed	3900.0	5500.0	0.24859598148301348	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	LYSINE	Leaf	3760.0	20170.0	1.6628021945345992	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	LEUCINE	Seed	3700.0	3750.0	-1.27607066721136	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
3	ALANINE	Leaf	3440.0	18450.0	1.3615480815328946	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	SERINE	Leaf	3280.0	17600.0	1.5524961353748998	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	VALINE	Leaf	3120.0	16740.0	1.1346165716482157	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
7	PHENYLALANINE	Leaf	2800.0	15020.0	1.2243440357218753	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	ISOLEUCINE	Leaf	2800.0	15020.0	0.7615009868426974	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
12	GLYCINE	Leaf	2720.0	14590.0	1.1085158262772645	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
13	PALMITIC-ACID	Seed	2400.0	9500.0	-0.503585224724406	--
8	TYROSINE	Leaf	2240.0	12010.0	1.1112099488478182	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	THREONINE	Leaf	2000.0	10730.0	0.3153628468971734	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	PHOSPHORUS	Seed	2000.0	2700.0	-0.7011725748825549	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
7	HISTIDINE	Leaf	1840.0	9870.0	2.255186144347604	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	LYSINE	Seed	1750.0	1800.0	-1.3950017923225162	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
3	VALINE	Seed	1600.0	1650.0	-1.2761249121679237	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
7	PHENYLALANINE	Seed	1450.0	1500.0	-1.1990056353773155	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
3	ISOLEUCINE	Seed	1075.0	1100.0	-1.1983767279324409	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
4	THREONINE	Seed	1050.0	1100.0	-1.574239291812439	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
28	CALCIUM	Leaf	930.0	5003.0	-0.917925931191467	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	PHOSPHORUS	Leaf	840.0	4519.0	-0.08324574404567579	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	CYSTINE	Seed	700.0	750.0	-1.6696102828167267	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
15	METHIONINE	Leaf	700.0	3860.0	0.6425258768913413	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	STEARIC-ACID	Seed	600.0	2300.0	-0.515487850383026	--
112	ASCORBIC-ACID	Leaf	490.0	2636.0	-0.19933288649781924	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
29	TRYPTOPHAN	Seed	440.0	450.0	-0.9805035053762663	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
15	METHIONINE	Seed	175.0	200.0	-1.0625192949985425	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
53	BETA-CAROTENE	Leaf	120.0	646.0	1.6753562972527778	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
39	NIACIN	Leaf	85.0	457.0	4.37280098796833	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
6	IRON	Leaf	37.0	199.0	-0.4161653734377091	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
31	THIAMIN	Leaf	2.0	11.0	0.5617191393000665	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Leaf	2.0	9.0	-0.13567415267130314	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	4-HYDROXY-PIPECOLIC-ACID	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	3-METHYL-3-E-NONEN-1-OIC-ACID	Plant				Pakistan Encyclopedia Planta Medica. 1986.
2	LINAMARIN	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	PRUNIN-O-6'-GALLATE	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
51	ELLAGIC-ACID	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	NONACOSANE	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
57	COUMARIN	Plant				Pakistan Encyclopedia Planta Medica. 1986.
16	METHYL-GALLATE	Plant				--
0	NARINGENIN-7-DIGLUCOSIDE	Fruit				Wealth of India.
0	3-METHYL-3-Z-NONENOIC-ACID	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	NARINGENIN-7-RHAMNOGLUCOSIDE	Fruit				--
7	LINALYL-ACETATE	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	CUMINIC-ALCOHOL	Flower				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	CRESOLS	Flower				Wealth of India.
0	HYDROXYACETOPHENONE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
1	CHOLESTEROL	Plant				Pakistan Encyclopedia Planta Medica. 1986.
17	FARNESOL	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
20	METHYL-EUGENOL	Flower				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
56	NARINGENIN	Fruit				Wealth of India.
3	AROMADENDRIN	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3-METHYL-3-Z-DECEN-1-OL	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	M-DIGALLIC-ACID	Fruit				--
0	LINALOL	Flower				--
10	CUMINALDEHYDE	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	APIGENIN-6,8-BIS-(C-BETA-D-GLUCOPYRANOSIDE)	Leaf				--
6	BUTYRIC-ACID	Flower				--
2	CAMPESTEROL	Plant				Pakistan Encyclopedia Planta Medica. 1986.
76	EUGENOL	Flower				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	N-METHYL-BETA-PHENETHYLAMINE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	3-METHYL-3-E-NONEN-1-OIC-ACID	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	N-ACETYL-DJENKOLIC-ACID	Seed				--
0	CRESOLS	Plant				--
0	WATER	Leaf		814000.0	0.031741499590285306	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
9	HCN	Leaf		4.495	-1.1674032562088021	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
11	NEROLIDOL	Flower				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
12	STIGMASTEROL	Plant				Pakistan Encyclopedia Planta Medica. 1986.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-IONONE	Flower				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	ETHYL-PHENOL	Flower				--
0	APIGENIN-6,8-BIS-BETA-D-GLUCOPYRANOSIDE	Plant				--
6	BUTYRIC-ACID	Plant				--
0	(+)-GALLOCATECHOL	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
34	SALICYLIC-ACID	Flower				--
2	PIPECOLIC-ACID	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
57	COUMARIN	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	NARINGENIN-7-RHAMNOGLUCOSIDE	Plant				--
0	BETA-GERANIOL	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
12	STIGMASTEROL	Seed				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	ETHYL-ESTER	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	M-DIGALLIC-ACID	Plant				--
7	LINALYL-ACETATE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
7	ANISALDEHYDE	Flower				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-GERANIOL	Plant				Pakistan Encyclopedia Planta Medica. 1986.
4	(+)-CATECHOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	NARINGENIN-7-GLUCOSIDE	Fruit				--
1	KAEMPFEROL-7-GLUCOSIDE	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	CIS-3-METHYL-DEC-3-ENOIC-ACID	Flower				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	NARINGENIN-7-GLUCOSIDE	Plant				--
0	SITOSTEROL	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	SITOSTEROL	Seed				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
53	LINALOOL	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	AMINO-ACIDS	Plant				--
20	BENZOIC-ACID	Plant				--
16	METHYL-GALLATE	Fruit				--
0	KAEMPFEROL-7-GALLOYLGLUCOSE	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	CIS-3-METHYL-DEC-3-EN-1-OL	Flower				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
5	GERANYL-ACETATE	Flower				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-METHYL-BETA-PHENETHYLAMINE	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
87	RUTIN	Leaf				Wealth of India.
9	BENZYL-ALCOHOL	Flower				--
51	ELLAGIC-ACID	Plant				--
0	KAEMPFEROL-7-DIGLUCOSIDE	Fruit				Wealth of India.
23	ALPHA-TERPINEOL	Flower				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
24	BENZALDEHYDE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
53	LINALOOL	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
75	KAEMPFEROL	Plant				--
1	CHOLESTEROL	Seed				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
11	TYRAMINE	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
35	GERANIOL	Flower				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	N-ACETYL-DJENKOLIC-ACID	Plant				--
5	PINITOL	Flower				Wealth of India.
20	BENZOIC-ACID	Flower				--
34	SALICYLIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EICOSANE	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	HYDROCYANIC-ACID	Leaf		4.495	-1.0	Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
2	ALPHA-SPINASTEROL	Seed				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	ALPHA-SPINASTEROL	Plant				Pakistan Encyclopedia Planta Medica. 1986.
75	KAEMPFEROL	Fruit				--
2	ISORHAMNETIN-3-RUTINOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
62	GALLIC-ACID	Plant				--
0	MYRICETIN-4'-METHYLEETHER-3-RHAMNOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
24	BENZALDEHYDE	Flower				Pakistan Encyclopedia Planta Medica. 1986.
0	DIHYDROACTINIDIOLIDE	Flower				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
17	FARNESOL	Plant				--
5	ALPHA-IONONE	Flower				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	3-METHYL-3-Z-NONENOIC-ACID	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	ISORHAMNETIN-3,7-GLUCORHAMNOSIDE	Flower				Wealth of India.
13	PALMITIC-ACID	Flower				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DECYL-ALDEHYDE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
3	TRIACONTANOL	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
3	MUCILAGE	Plant				Pakistan Encyclopedia Planta Medica. 1986.
0	DECYL-ALDEHYDE	Flower				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
0	EICOSANE	Plant				--
0	3-METHYL-3-Z-DECEN-1-OL	Plant				Pakistan Encyclopedia Planta Medica. 1986.
2	LOTAUSTRALIN	Plant				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	QUERCETIN-3-O-RUTINOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
62	GALLIC-ACID	Flower				Wealth of India.
8	P-CRESOL	Flower				Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
2	CAMPESTEROL	Seed				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
10	CUMINALDEHYDE	Plant				--
0	TRANS-3-METHYL-DEC-4-ENOIC-ACID	Flower				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
21	METHYL-SALICYLATE	Flower				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	NONACOSANE	Plant				Pakistan Encyclopedia Planta Medica. 1986.