

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in Ananas comosus

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	5-HYDROXYTRYPTAMINE	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
6	ACETALDEHYDE	Fruit	0.61	1.4	-0.7074252260202778	
16	ACETIC-ACID	Fruit	0.49	0.49	-0.6429596690411867	
3	ACETONE	Fruit	--	--		
2	ACRYLIC-ACID	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	ALANINE	Fruit	170	1259	-0.9623293474565466	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Fruit	620	4592	0.9270718186858735	USDA's Ag Handbook 8 and sequelae)
23	ALPHA-TERPINEOL	Fruit	--	--		Wealth of India.
32	ALPHA-TOCOPHEROL	Fruit	1	7	-1.0138725518998306	USDA's Ag Handbook 8 and sequelae)
1	AMYL-CAPROATE	Fruit	--	--		
14	ARGININE	Fruit	46	1333	-0.794013888564445	
112	ASCORBIC-ACID	Fruit	148	4178	-0.024713529850358282	
2	ASPARAGINE	Fruit	1251	1251	-0.05455471931954438	
3	ASPARTIC-ACID	Fruit	293	4222	-0.7799223200234909	
53	BETA-CAROTENE	Fruit	--	3	-0.14500168318231235	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Fruit	--	40	-0.7416857929866011	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
4	BORON	Fruit	0.2	0.2	-0.7998787652725032	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).
54	BROMELAIN	Stem	400	6000		
54	BROMELAIN	Leaf	--	--		
54	BROMELAIN	Fruit	--	800		
54	BROMELAIN	Fruit Juice	--	--		
54	BROMELAIN	Pericarp	--	750		
102	CAFFEIC-ACID	Fruit	--	--		Wealth of India.
28	CALCIUM	Fruit	62	1308	-0.5880435225997285	
2	CAMPESTEROL	Fruit	--	10	-0.574497534390022	
1	CELLULOSE	Fruit	4300	5400	-0.6079389189790592	
3	CHAVICOL	Fruit	0.27	0.27	-0.9394828377321076	
7	CHLORINE	Fruit	130	460	-0.37076321149612135	
23	CITRIC-ACID	Fruit	3200	86000	0.7561189975512667	
12	COPPER	Fruit	1	8.8	-0.31279291639814205	USDA's Ag Handbook 8 and sequelae)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	CYANIN	Leaf	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
2	CYSTINE	Fruit	20	148	-0.9213988097846431	
6	ETHYL-ACETATE	Fruit	3	120	-0.70662139478696	
3	ETHYL-ACRYLATE	Fruit	0.77	0.77		
1	ETHYL-BUTYRATE	Fruit	--	--		
1	ETHYL-FORMATE	Fruit	--	--		
2	ETHYL-ISOBUTYRATE	Fruit	--	--		
1	ETHYL-ISOVALERATE	Fruit	0.39	0.39		
1	ETHYL-LACTATE	Fruit	--	--		
1	ETHYL-PROPIONATE	Fruit	--	--		
61	FERULIC-ACID	Plant	200	760	0.30089312112081323	
15	FIBER	Fruit	3000	45000	-0.9122848051944537	
8	FRUCTOSE	Fruit	6000	23000	-0.5685085977706082	
22	GABA	Fruit	124	124	-0.8260218279660345	
22	GAMMA-AMINOBUTYRIC-ACID	Fruit	--	124	-0.7339036629968998	
7	GLUCOSE	Fruit	10000	32000	-0.5554772375932454	
8	GLUTAMIC-ACID	Fruit	90	3333	-0.7707955020140207	
5	GLUTAMINE	Fruit	256	256	-1.3035344452228055	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	GLYCINE	Fruit	65	1259	-0.9073607916848047	
7	HISTIDINE	Fruit	48	667	-0.7330978320953143	
12	IODINE	Fruit	--	1	-0.2853656286580971	
6	IRON	Fruit	3	73	-0.237916857716136	
3	ISOBUTYL-ACETATE	Fruit	--	--		
3	ISOLEUCINE	Fruit	23	963	-0.8033643152755049	
2	LEUCINE	Fruit	24	1407	-0.7853327434466933	
53	LINALOOL	Fruit	--	--		Wealth of India.
27	LINOLEIC-ACID	Fruit	840	6222	-0.26761688873606465	USDA's Ag Handbook 8 and sequelae)
4	LYSINE	Fruit	46	1852	-0.5859651529954232	
65	MAGNESIUM	Fruit	110	1075	-0.4884044378711737	
15	MALIC-ACID	Fruit	1000	4700	-0.6457922708636072	
14	MANGANESE	Fruit	12	209	0.9745812460530798	USDA's Ag Handbook 8 and sequelae)
2	METHANOL	Fruit	--	--		
15	METHIONINE	Fruit	110	815	-0.17673494188159297	USDA's Ag Handbook 8 and sequelae)
3	METHYL-ACETATE	Fruit	--	--		
2	METHYL-BUTYRATE	Fruit	--	--		
2	METHYL-CAPROATE	Fruit	--	--		
2	METHYL-CAPRYLATE	Fruit	0.75	0.75		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	METHYL-ISOVALERATE	Fruit	0.6	0.6		
13	MUFA	Fruit	480	3556	-0.2022365513065334	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Leaf	--	--		Wealth of India.
39	NIACIN	Fruit	2	33	-0.3702757051487892	
18	OLEIC-ACID	Fruit	450	3333	-0.4550566138643591	USDA's Ag Handbook 8 and sequelae)
9	OXALIC-ACID	Fruit	50	58	-0.3031507791033899	
12	P-AMINOBENZOIC-ACID	Fruit	--	1		
25	P-COUMARIC-ACID	Plant	330	730	1	
13	PALMITIC-ACID	Fruit	190	1407	-0.34363159570129753	USDA's Ag Handbook 8 and sequelae)
2	PALMITOLEIC-ACID	Fruit	30	220	-0.3052214375445054	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Fruit	1	11	-0.4531667614192529	
24	PECTIN	Fruit	600	1600	-0.6112516644530539	
7	PHENYLALANINE	Fruit	40	889	-0.8450965469447457	
4	PHOSPHORUS	Fruit	60	923	-0.6964737105069562	
5	PHYLLOQUINONE	Fruit	--	0.002	-0.2326945725033858	
2	PHYTOSTEROLS	Fruit	60	444	-0.6459122529026068	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Fruit	110	9932	0.0250816407680162	
4	PUFA	Fruit	1460	10815	-0.0653033406862613	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Fruit	--	3	-0.4303249009534089	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

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7	SALICYLATES	Fruit	10	150	0.09337758267881556	
1	SERINE	Fruit	250	1852	-0.6323156765928126	USDA's Ag Handbook 8 and sequelae)
26	SEROTONIN	Fruit	19	60	0.9214964116563734	
4	SILICON	Fruit	110	690	1.6333480894777093	
9	SINAPIC-ACID	Fruit	--	--		Wealth of India.
1	SODIUM	Fruit	10	180	-0.15104516616496144	
5	STARCH	Leaf	--	30000	-0.15269733104161728	Wealth of India.
5	STARCH	Fruit	19	19	-0.4565493616156333	
5	STARCH	Stem	100000	150000	1	Wealth of India.
8	STEARIC-ACID	Fruit	110	815	-0.22517226092311657	USDA's Ag Handbook 8 and sequelae)
1	STIGMAST-5-ENE-3-BETA-7-ALPHA-DIOL	Plant	--	--		
12	STIGMASTEROL	Fruit	--	--	-1.1725991994622522	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
3	SUBAPHYLLIN	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
14	SUCROSE	Fruit	59000	150000	0.31672247615443067	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
14	SULFUR	Fruit	70	200	-0.8453199626150852	
31	THIAMIN	Fruit	--	7	0.21342198396383905	

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4	THREONINE	Fruit	78	859	-0.8973538144786632	
8	TYROSINE	Fruit	58	889	-0.6338783019676755	
3	VALINE	Fruit	39	1185	-0.6742786315009667	
28	VANILLIN	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
77	ZINC	Fruit	0.7	6	-0.7311333825482068	USDA's Ag Handbook 8 and sequelae)