

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

**Chemicals Found in Pistacia vera**

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ALANINE	Seed	9940	10340	0.039067240568968556	
15	ALPHA-LINOLENIC-ACID	Seed	2520	2621	-0.27919187192471484	
32	ALPHA-TOCOPHEROL	Seed	52	54	-0.5594440363886509	
5	ALUMINUM	Seed	9	9	-0.3486691215002131	
14	ARGININE	Seed	21860	22740	-0.0804696041459761	
2	ARSENIC	Seed	0.02	0.02	-0.6237689826185465	
3	ASPARTIC-ACID	Seed	21160	22012	-0.051221228200545865	
53	BETA-CAROTENE	Seed	1.38	1.46	-0.33804505534737583	
47	BETA-SITOSTEROL	Seed	--	--		
4	BORON	Seed	11	11	-0.6219400628741869	
3	CADMIUM	Seed	0.04	0.04	-0.32848425565653566	
28	CALCIUM	Seed	1066	1464	-0.492647496532484	
7	CHLORINE	Seed	408	408	0.09820418310169288	
24	CHROMIUM	Seed	0.6	0.6	-0.5951002882484197	
2	COBALT	Seed	0.2	0.2	-0.19726970453812753	
12	COPPER	Seed	11	33	1.6495159701011972	
2	CYSTINE	Seed	5130	5336	1.520788829970026	
15	FIBER	Seed	18800	20000	-0.9063131872799939	

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15	FOLACIN	Seed	0.6	0.6	-0.8272852175939348	
8	GLUTAMIC-ACID	Seed	49160	51139	0.3976822870196297	
12	GLYCINE	Seed	10950	11391	0.06344450891072696	
3	GOLD	Seed	0.002	0.002	0.898026510133874	
7	HISTIDINE	Seed	5360	5576	-0.14570652162966333	
12	IODINE	Seed	51	51	4.471332530309744	
6	IRON	Seed	46	137	-0.06408698436104945	
3	ISOLEUCINE	Seed	9750	10143	-0.044476129276939703	
2	LEUCINE	Seed	16770	17445	0.034798551753624236	
27	LINOLEIC-ACID	Seed	70220	110880	0.032197232349524346	
4	LYSINE	Seed	12780	13295	0.16205725474128296	
65	MAGNESIUM	Seed	949	1644	-0.5144527118435606	
14	MANGANESE	Seed	3.2	3.4	-0.624348992056044	
1	MERCURY	Seed	0.1	0.1	-0.12385851994600533	
15	METHIONINE	Seed	3810	3963	-0.09084098288540264	
13	MUFA	Seed	326680	339831	1.6668295259670671	
6	MYRISTIC-ACID	Seed	282	468	-0.28987669285314893	
39	NIACIN	Seed	11	15	-0.8347441211060711	
3	NICKEL	Seed	1.1	1.1	-0.6985865614748106	

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18	OLEIC-ACID	Seed	319760	389760	2.2249558349499186	
13	PALMITIC-ACID	Seed	38540	55643	0.44849458637299044	
2	PALMITOLEIC-ACID	Seed	2860	2975	-0.22705402060012958	
24	PECTIN	Seed	35300	35300	0.11566385950776774	
7	PHENYLALANINE	Seed	11840	12317	0.09273622899418647	
4	PHOSPHORUS	Seed	4300	5280	-0.019384310159478342	
2	PHYTOSTEROLS	Seed	1080	1123	-0.34238067383870535	
14	POTASSIUM	Seed	8639	11493	-0.09471998373566626	
4	PUFA	Seed	73160	76105	-0.2262836860804633	
60	SELENIUM	Seed	0.1	0.1	-0.26278450119784413	
1	SERINE	Seed	13510	14054	0.666884826668086	
14	SHIKIMIC-ACID	Leaf	--	--		
4	SILICON	Seed	1450	1450	1.121505771688299	
1	SODIUM	Seed	54	538	0.13831454255313635	
10	SQUALENE	Seed	--	--		
8	STEARIC-ACID	Seed	6280	8960	-0.37098846575323996	
12	STIGMASTEROL	Seed	--	--		
7	SUCCINIC-ACID	Seed	--	--		
14	SUCROSE	Seed	32600	32600	-0.2341239304582195	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	SULFUR	Seed	2870	2870	0.18957786752333922	
35	TANNIN	Plant	--	--		
4	THREONINE	Seed	7220	7511	-0.14013377029686228	
4	TIN	Seed	0.4	0.4	-0.6073769844173956	
29	TRYPTOPHAN	Seed	2830	2944	-0.12996540296324327	
8	TYROSINE	Seed	7140	7427	-0.07278254207594334	
3	VALINE	Seed	14100	14688	0.3296328738055746	
16	VANADIUM	Seed	0.01	0.01	-0.5814082457706883	
77	ZINC	Seed	3	30	-0.42960193727303775	