

Presence of Compounds in Brazilian Peppertree (*Schinus molle*)

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Amyrin, alpha:	Triterpene	Entire Plant	Egypt	Not stated	T04147
Behenic Acid	Lipid	Fruit	Italy	Not stated	M01614
Bergamont-trans-ene, alpha:	Sesquiterpene	Fruit Essential Oil	Not Stated	Not Stated	M10800
Bicyclogermacrene	Sesquiterpene	Leaf Essential Oil	Uruguay	29.2%	J14452
Bourbonene	Sesquiterpene	Fruit Essential Oil	Not Stated	Not Stated	M10800
Cadinene, delta:	Sesquiterpene	Fruit Essential Oil Fruit Essential Oil Leaf Essential Oil	USA-CA Not Stated Uruguay	09.11% Not Stated 01.26%	T08301 M10800 J14452
Cadinol, alpha:	Sesquiterpene	Fruit Essential Oil	USA-CA	06.64%	T08301
Cadinol, delta:	Sesquiterpene	Fruit Essential Oil	USA-CA	00.69%	T08301
Cadinol, t:	Sesquiterpene	Fruit Essential Oil	USA-CA	01.39%	T08301
Calacorene, alpha:	Sesquiterpene	Fruit Essential Oil	USA-CA	00.26%	T08301
Calacorene, gamma:	Sesquiterpene	Fruit Essential Oil	USA-CA	00.15%	T08301
Calamenediol, iso: Pre	Sesquiterpene	Leaf	Not Stated	00.06%	M13851
Calamenene	Sesquiterpene	Fruit Essential Oil	USA-CA	00.28%	T08301
Calcium	Inorganic	Gum	Uruguay	Not Stated	W00209
Camphene	Monoterpene	Fruit Essential Oil Fruit Essential Oil Leaf Essential Oil	USA Not Stated USA-CA	Not Stated Not Stated Not Stated	W01801 M10800 T08301
Car-3-ene	Monoterpene	Essential Oil	Uruguay	Not Stated	W00209
Carvacrol	Monoterpene	Essential Oil Fruit Essential Oil Fruit Essential Oil Leaf Essential Oil	Uruguay Not Stated Not Stated Argentina	Not Stated Not Stated Not Stated Not Stated	W00209 M10800 A02760 W01632

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Caryophyllene Oxide	Sesquiterpene	Leaf Essential Oil	Uruguay	00.53%	J14452
Caryophyllene, beta:	Sesquiterpene	Fruit Essential Oil Fruit Essential Oil Leaf Essential Oil	USA-CA Not Stated Uruguay	02.02% Not Stated 07.68%	T08301 M10800 J14452
Cerotic Acid	Lipid	Fruit	Italy	Not Stated	M01614
Copaene, alpha:	Sesquiterpene	Fruit Essential Oil	USA-CA	00.12%	T08301
Croweacin	Phenylpropanoid	Fruit Essential Oil	Argentina	Not Stated	W01632
Cubebene, alpha:	Sesquiterpene	Fruit Essential Oil	USA-CA	00.13%	T08301
Cyanidin-3-o-alpha-l-galactoside	Flavonoid	Fruit	Argentina	Not Stated	J08044
Cyanidin-3-o-beta-d-rutinoside	Flavonoid	Fruit	Argentina	Not Stated	J08044
Cymene, para:	Monoterpene	Fruit Essential Oil Fruit Essential Oil Fruit Essential Oil	USA-CA USA Not Stated	02.93% Not Stated Not Stated	T08301 W01801 M10800
Elemene, beta:	Sesquiterpene	Fruit Essential Oil	USA-CA	00.52%	T08301
Elemol	Sesquiterpene	Fruit Essential Oil	USA-CA	01.32%	T08301
Elemonic Acid, beta:	Triterpene	Seed	Mexico	00.0308%	M24026
Essential Oil (<i>Schinus molle</i>)	Essential Oil	Fruit + Leaf Oil Leaf Fruit Fruit Fruit Fruit + Leaf Fruit Leaf Gum Leaf	South Africa Algeria Not Stated Uruguay Argentina South Africa Mexico Mexico Uruguay Argentina	Not Stated Not Stated 04.0% 04.8% 04.8% Not Stated Not Stated Not Stated Not Stated Not Stated 03.0%	A03080 W01625 A02760 A02855 W01632 W01625 W01625 W01625 W00209 W01632
Eudesmol, alpha:	Sesquiterpene	Fruit Essential Oil	USA-CA	00.90%	T08301
Eudesmol, beta:	Sesquiterpene	Fruit Essential Oil	USA-CA	01.01%	T08301

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Eudesmol, gamma:	Sesquiterpene	Fruit Essential Oil	USA-CA	01.04%	T08301
Fisetin	Flavonol	Bark	Egypt (cult)	Not Stated	M20865
Gallic Acid	Benzenoid	Leaf & Bark	Egypt (cult)	Not Stated	M20865
Geraniol Butyrate	Monoterpene	Fruit Essential Oil	USA-CA	00.34%	T08301
Germacrene D	Sesquiterpene	Fruit Essential Oil Leaf Essential Oil	Not Stated Uruguay	Not Stated 12.08%	M10800 J14452
Germacrone	Sesquiterpene	Leaf Essential Oil	Uruguay	00.75%	J14452
Guaiene, beta:	Sesquiterpene	Fruit Essential Oil	USA-CA	00.22%	T08301
Gurjunene, alpha:	Sesquiterpene	Fruit Essential Oil	USA-CA	00.71%	T08301
Heptacosanoic Acid	Lipid	Fruit	Italy	Not Stated	M01614
Humulene, alpha:	Sesquiterpene	Fruit Essential Oil Leaf Essential Oil	USA-CA Uruguay	00.58% 00.57%	T08301 J14452
Laccase	Proteid	Shoots	Israel	Not Stated	T01016
Lanosta-8-cis-24-dien-26-oic acid,3 alpha-hydroxy-21-oxo: 13-alpha-14-Beta-17-alpha:- (20-r):	Triterpene	Leaf	Spain	00.03%	J15736
Lanosta-8-cis-24-dien-26-oic acid,3: alpha-hydroxy: 13-alpha-14-beta-17 -alpha: (20-s):	Triterpene	Leaf	Spain	00.01714%	J15736
Lignoceric Acid	Lipid	Leaf + Stem Leaf + Stem Fruit	Mexico Mexico Italy	Not Stated Not Stated Not Stated	A02708 W01546 M01614
Limonene	Monoterpene	Fruit Essential Oil Fruit Essential Oil Leaf Essential Oil	USA-CA Not Stated Uruguay	07.23% Not Stated 00.88%	T08301 M10800 J14452
Limonene, (+)	Monoterpene	Fruit Essential Oil	USA	Not Stated	W01801
Linalool	Monoterpene	Leaf Essential Oil	Uruguay	00.71%	J14452

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Linoleic Acid	Lipid	Seed Oil	Australia (cult)	57.0%	T01965
Malvalic Acid, dihydro	Lipid	Seed Oil	Not Stated	Not Stated	M19312
Masticadienoic Acid, iso	Triterpene	Fruit	Italy	Not Stated	M01614
Masticadienolalic Acid, iso: 3-epi	Sesquiterpene	Seed	Mexico	Not Stated	M24026
Masticadienolic Acid, iso	Triterpene	Fruit Seed	Sicily Mexico	Not Stated 00.069%	W00010 M24026
Masticadienolic Acid, iso: 3-epi	Triterpene	Seed Fruit	Mexico Italy	00.0207% Not Stated	M24026 M01614
Masticadienonic Acid, iso	Triterpene	Fruit Fruit	Sicily Italy	00.875% Not Stated	T01429 M01614
Masticadienonic Acid, iso: 3-epi	Triterpene	Fruit	Italy	Not Stated	M01614
Masticadienonic Acid	Triterpene	Fruit	Italy	Not Stated	M01614
Masticadienonic Acid, iso	Triterpene	Fruit Fruit Seed	Sicily Sicily Mexico	00.475% Not Stated 00.0127%	T01429 W00010 M24026
Menth-cis-2-en-1-ol	Monoterpene	Leaf Essential Oil	Ethiopia	Not Stated	J13498
Muurolene, alpha	Sesquiterpene	Fruit Essential Oil	USA-CA	01.48%	T08301
Muurolene, gamma	Sesquiterpene	Fruit Essential Oil	USA-CA	00.48%	T08301
Muurolol, t	Sesquiterpene	Fruit Essential Oil	USA-CA	02.32%	T08301
Myrcene	Monoterpene	Fruit Essential Oil Fruit Essential Oil Fruit Essential Oil Leaf Essential Oil	USA-CA USA Not Stated Uruguay	20.41% Not Stated Not Stated 05.46%	T08301 W01801 M10800 J14452
Nerol Hexanoate	Monoterpene	Fruit Essential Oil	USA-CA	00.28%	T08301
Octacosanoic Acid	Lipid	Fruit	Italy		M01614
Octanoic Acid Methyl Ester	Lipid	Fruit Essential Oil Fruit Essential Oil	USA-CA Not Stated	00.95% Not Stated	T08301 M10800

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Oleic Acid	Lipid	Seed Oil	Australia (cult)	23.3%	T01965
Paeonidin-3-o-beta-d-glucoside	Flavonoid	Fruit	Argentina	Not Stated	J08044
Palmitic Acid	Lipid	Seed Oil	Australia (cult)	13.0%	T01965
Pentacosanoic Acid	Lipid	Fruit	Italy	Not Stated	M01614
Pentan-1-ol,3-methyl: formate	Alkanol	Fruit Essential Oil	Argentina (cult)	Not Stated	W01632
Peroxidase	Proteid	Gum	Uruguay	Not Stated	W00209
Phellandrene, alpha	Monoterpene	Fruit Essential Oil Fruit Essential Oil Fruit Essential Oil Fruit Essential Oil Leaf Essential Oil	Not Stated Argentina (cult) USA Argentina (cult) Not Stated	Not Stated Not Stated 17.34% Not Stated Not Stated	M10800 W01632 T08301 W01801 W01632
Phellandrene, beta	Monoterpene	Fruit Essential Oil Fruit Essential Oil Fruit Essential Oil Fruit Essential Oil Leaf Essential Oil	Not Stated Argentina (cult) USA-CA Uruguay Not Stated	Not Stated Not Stated Not Stated 06.21% 00.3%	A02760 W01632 W01801 T08301 J14452
Phenol, ortho-ethyl	Benzenoid	Fruit Essential Oil Fruit Essential Oil	Argentina (cult) Not Stated	Not Stated Not Stated	W01632 M10800
Pinene	Monoterpene	Essential Oil Fruit Essential Oil	Uruguay Not Stated	Not Stated Not Stated	W00209 A02760
Pinene, alpha	Monoterpene	Fruit Essential Oil Fruit Essential Oil Fruit Essential Oil Leaf Essential Oil	USA Not Stated USA-CA Argentina (cult)	Not Stated Not Stated 02.66% Not Stated	W01801 M10800 T08301 W01632
Pinene, beta	Monoterpene	Leaf Essential Oil Fruit Essential Oil Fruit Essential Oil Fruit Essential Oil Fruit Essential Oil	Uruguay Not Stated USA USA-CA Argentina (cult)	13.95% Not Stated Not Stated 00.17% Not Stated	J14452 M10800 W01801 T08301 W01632

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Piperine	Alkaloid	Fruit Fruit	Peru Brazil	Not Stated Not Stated	W01851 A06590
Piperitol, trans	Monoterpene	Leaf Essential Oil	Ethiopia	Not Stated	J13498
Protocatechuic Acid	Benzenoid	Bark	Egypt (cult)	Not Stated	M20865
Quercetin	Flavonol	Leaf Leaf + Stem Leaf	Egypt (cult) Mexico Argentina	Not Stated Not Stated 00.8%	M20865 W01546 A02784
Quercitrin, iso	Flavonol	Leaf	Argentina	00.07%	A02784
Raffinose	Carbohydrate	Leaf	Egypt (cult)	Not Stated	M20865
Rutin	Flavonol	Leaf	Argentina	00.15%	A02784
Sabinene	Monoterpene	Fruit Essential Oil Leaf Essential Oil Fruit Essential Oil	Not Stated Uruguay USA-CA	Not Stated 12.92% Not Stated	M10800 J14452 T08301
Sitosterol, beta	Steroid	Leaf + Stem Entire Plant Leaf + Stem	Mexico Egypt Mexico	Not Stated Not Stated Not Stated	A02708 T04147 W01546
Spathulene, beta	Sesquiterpene	Fruit Fruit Essential Oil	Mexico Not Stated	Not Stated Not Stated	W01816 M10800
Sucrose	Carbohydrate	Leaf Bark	Egypt (cult) Egypt (cult)	Not Stated Not Stated	M20865 M20865
Terpinen-4-ol	Monoterpene	Leaf Essential Oil	Uruguay	10.57%	J14452
Terpinene, alpha	Monoterpene	Fruit Essential Oil	Not Stated	Not Stated	M10800
Terpinene, gamma	Monoterpene	Fruit Essential Oil Leaf Essential Oil	Not Stated Uruguay	Not Stated 01.13%	M10800 J14452
Terpineol, alpha	Monoterpene	Leaf Essential Oil Fruit Essential Oil Fruit Essential Oil	Uruguay Not Stated Argentina (cult)	01.25% Not Stated Not Stated	J14452 M10800 W01632
Terpineol, alpha: formate	Monoterpene	Fruit Essential Oil	Argentina (cult)	Not Stated	W01632

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Terpinolene	Monoterpene	Fruit Essential Oil	USA-CA	00.10%	T08301
Tricosanoic Acid	Lipid	Fruit	Italy	Not Stated	M10800
		Fruit Essential Oil	Not Stated	Not Stated	M01614

Other Phytochemical Screening:

Alkaloids Absent	Leaf + Stem	A02708	Sterols and/or Triterpenes Present	Aerial Parts	A04080
	Aerial Parts	A04080	Tannins (ferric chloride test) Present	Part Not Stated	A04964
Alkaloids Present	Leaf + Stem	A03779	Tannins (gelatin salt-block test) Absent	Aerial Parts	A04080
Flavonoids Present	Leaf	M20865	Tannins (gelatin-precipitation test) Absent	Aerial Parts	A04080
	Bark	M20865	Tannins (gelatin-precipitation test) Present	Leaf	M20865
Steroidal Saponins Present	Leaf + Stem	W01546		Bark	M20865

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