

## Presence of Compounds in Boldo (*Peumus boldus*)

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Ascaridol	Monoterpene	Leaf Essential Oil	Chile	18.08–34.1%	N16089
		Leaf	Not stated	Not stated	J10046
		Leaf	Not stated	4,000-10,000 ppm	ZZ1095
Ascaridole	Monoterpene	Leaf Essential Oil	Brazil	Not stated	L12701
Benzaldehyde	Benzenoid	Leaf Essential Oil	Not stated	Not stated	J10046
		Leaf	Not stated	1 ppm	ZZ1095
		Leaf	Not stated	0.0001%	ZZ1049
Benzene, 1-methyl-4-isopropenyl-	Benzenoid	Leaf	Not stated	60-75 ppm	ZZ1095
Benzoic acid benzyl ester	Benzenoid	Leaf Essential Oil	Not stated	Not stated	J10046
		Leaf	Not stated	80-100 ppm	ZZ1095
Boldin	Alkaloid	Plant	Not stated	Not stated	ZZ1095
	Isoquinoline Alkaloid	Leaf	Italy	Not stated	K03760
		Bark	Chile	Not stated	K12333
		Leaf	Not stated	Not stated	M19360
		Leaf	Australia	Not stated	M28638
		Leaf	Chile	Not stated	M27101
		Leaf	Belgium	00.053%	N18645
		Leaf	Not stated	00.2%	L00940
		Bark	Chile	05.71429%	N18154
		Bark	Chile	06.27692%	N19784
		Leaf	Poland	Not stated	N14697
		Leaf	Chile	Not stated	A01223
Boldine, 6(a)-7-dehydro-	Isoquinoline Alkaloid	Leaf	Not stated	Not stated	A2230A
		Bark	Chile	00.00131%	N19784
Boldine, iso-	Isoquinoline Alkaloid	Leaf	Chile	Not stated	A01223
Boldine, nor-	Isoquinoline Alkaloid	Suspension Culture	Not stated	00.00625%	M20021
Boldoglucin	Glycoside	Leaf	Not stated	Not stated	ZZ1095
Bornyl-acetate		Leaf	Not stated	40-50 ppm	ZZ1095
		Leaf	Not stated	0.004-0.005%	ZZ1049

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Camphene	Monoterpene	Leaf Essential Oil	Not stated	Not stated 120-150 ppm 0.012-0.015%	J10046
		Leaf	Not stated		ZZ1095
		Leaf	Not stated		ZZ1049
Camphor	Monoterpene	Leaf Essential Oil	Not stated	Not stated 120-150 ppm 0.012-0.015%	J10046
		Leaf	Not stated		ZZ1095
		Leaf	Not stated		ZZ1049
Car-3-ene	Monoterpene	Leaf Essential Oil	Not stated	Not stated	J10046
Carene, alpha-3-	Monoterpene	Leaf	Not stated	100-125 ppm	ZZ1095
Cineol, 1-8-	Monoterpene	Leaf Essential Oil	Not stated	Not stated 6,000-40,000 ppm	J10046
		Leaf	Not stated		ZZ1095
Cinnamaldehyde, alpha-hexyl-	Phenylpropanoid	Leaf Essential Oil	Not stated	Not stated 80-100 ppm	J10046
		Leaf	Not stated		ZZ1095
Coclaurine, (r)-	Isoquinoline Alkaloid	Stembark	Chile	Not stated	K16615
Coclaurine, (s)-	Isoquinoline Alkaloid	Stembark	Chile	Not stated	K16615
Corydine, iso-	Isoquinoline Alkaloid	Leaf	Poland	Not stated Not stated	N14697
			Not stated		M19360
Corydine, n-oxide-iso-	Isoquinoline Alkaloid	Leaf	Australia	Not stated Not stated	M28638
		Leaf	Chile		A01223
Corydine, nor-iso-	Isoquinoline Alkaloid	Leaf	Chile	Not stated	A01223
Coumarin	Coumarin	Leaf Essential Oil	Not stated	Not stated 100-125 ppm 0.01-0.0125%	J10046
		Leaf	Not stated		ZZ1095
		Leaf	Not stated		ZZ1049
Cuminaldehyde	Monoterpene	Leaf Essential Oil	Not stated	Not stated 60-75 ppm	J10046
		Leaf	Not stated		ZZ1095
Cymen-7-ol, para-	Monoterpene	Leaf Essential Oil	Brazil	Not stated	L12701
Cymene, para-	Monoterpene	Leaf Essential Oil	Not stated	Not stated 7,150 ppm 0.715%	J10046
		Leaf	Not stated		ZZ1095
		Leaf	Not stated		ZZ1049

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Cymol, para-		Leaf	Not stated	6,000-7,500 ppm	ZZ1095
		Leaf	Not stated	0.6-0.75%	ZZ1049
Decan-2-one	Alkanone C5 or More	Leaf Essential Oil	Not stated	Not stated	J10046
		Leaf	Not stated	1 ppm	ZZ1095
Eugenol		Leaf	Not stated	Not stated	ZZ1095
		Leaf	Not stated	0.01-0.0125%	ZZ1049
Eugenol methyl ether	Phenylpropanoid	Leaf Essential Oil	Not stated	Not stated	J10046
		Leaf	Not stated	100-125 ppm	ZZ1095
Farnesol	Sesquiterpene	Leaf Essential Oil	Not stated	Not stated	J10046
		Leaf	Not stated	80-100 ppm	ZZ1095
		Leaf	Not stated	0.008-0.01%	ZZ1049
Fenchol, alpha-	Monoterpene	Leaf Essential Oil	Not stated	Not stated	J10046
		Leaf	Not stated	34-43 ppm	ZZ1095
		Leaf	Not stated	0.0034-0.0043%	ZZ1049
Fenchone	Monoterpene	Leaf Essential Oil	Not stated	Not stated	J10046
		Leaf	Not stated	160-200 ppm	ZZ1095
		Leaf	Not stated	0.016-0.02%	ZZ1049
Heptan-2-one	Alkanone C5 or More	Leaf Essential Oil	Not stated	Not stated	J10046
Ionene, alpha-methyl-	Sesquiterpene	Leaf Essential Oil	Not stated	Not stated	J10046
		Leaf	Not stated	80-100 ppm	ZZ1095
Ionone, beta-iso-methyl-	Sesquiterpene	Leaf Essential Oil	Not stated	Not stated	J10046
Kaempferol-3-glucoside-7-rhamnoside		Leaf	Not stated	Not stated	ZZ1095
Laurolitsine		Leaf	Not stated	Not stated	ZZ1095
Laurotetanine, n-methyl-	Isoquinoline Alkaloid	Leaf	Australia	Not stated	M28638
		Leaf	Poland	Not stated	N14697
		Leaf	Not stated	Not stated	M19360
		Leaf	Chile	Not stated	A01223
Limonene	Monoterpene	Leaf Essential Oil	Not stated	Not stated	J10046
		Leaf	Not stated	320-400 ppm	ZZ1095
		Leaf	Not stated	0.032-0.04%	ZZ1049

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Linalool	Monoterpene	Leaf Essential Oil Leaf Leaf	Not stated Not stated Not stated	Not stated 3,400-4.300 ppm 0.34-0.43%	J10046 ZZ1095 ZZ1049
Myrtenal	Monoterpene	Leaf Essential Oil Flower	Not stated Not stated	Not stated Not stated	J10046 ZZ1095
Nonan-2-one	Alkanone C5 or More	Leaf Essential Oil Leaf	Not stated Not stated	Not stated 80-100 ppm	J10046 ZZ1095
Nuciferine, (-)pro-	Isoquinoline Alkaloid	Bark	Chile	00.00300%	N18154
Octan-2-one	Alkanone C5 or More	Leaf Essential Oil	Not stated	Not stated	J10046
Pachycarpine		Plant	Not stated	Not stated	ZZ1095
Phthalate, diethyl-	Benzenoid	Leaf Essential Oil Leaf	Not stated Not stated	Not stated 60-75 ppm	J10046 ZZ1095
Pinene, alpha-	Monoterpene	Leaf Essential Oil Leaf Leaf	Not stated Not stated Not stated	Not stated 800-1,000 ppm 0.016-0.02%	J10046 ZZ1095 ZZ1049
Pinene, beta-	Monoterpene	Leaf Essential Oil Leaf Leaf	Not stated Not stated Not stated	Not stated 160-200 ppm 0.08-0.1%	J10046 ZZ1095 ZZ1049
Propene, 2-para-tolyl-	Monoterpene	Leaf Essential Oil	Not stated	Not stated	J10046
Reticuline, (+)	Isoquinoline Alkaloid	Leaf	Chile	00.001%	A01223
Rhamnetin, 3-o-alpha-l-arabinoisoyl-7-o-alpha-l-rhamnoside	Flavonol	Leaf	Italy	Not stated	K04315
Rhamnetin, 3-glucoside-7-rhamnoside iso-		Leaf	Not stated	Not stated	ZZ1095
Rhamnetin-3-arabinoside-3'-rhamnoside		Leaf	Not stated	Not stated	ZZ1095
Sabinene	Monoterpene	Leaf Essential Oil Leaf	Not stated Not stated	Not stated 160-200 ppm	J10046 ZZ1095
Sinoacutine	Isoquinoline Alkaloid	Bark	Chile	00.00607%	N18154
Sornyl acetate	Monoterpene	Leaf Essential Oil	Not stated	Not stated	J10046

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Sparteine	Quinolizidine Alkaloid	Leaf	Not stated	Not stated	A2230A
Terpin-n-en-1-ol	Monoterpene	Leaf Essential Oil	Not stated	Not stated	J10046
Terpinen-4-ol		Leaf Leaf	Not stated Not stated	520-650 ppm 0.052-0.065%	ZZ1095 ZZ1049
Terpinene, gamma-	Monoterpene	Leaf Essential Oil Leaf Leaf	Not stated Not stated Not stated	Not stated 200-250 ppm 0.02-0.025%	J10046 ZZ1095 ZZ1049
Terpineol, alpha-	Monoterpene	Leaf Essential Oil Leaf Leaf	Not stated Not stated Not stated	Not stated 180-225 ppm 0.018-0.0225%	J10046 ZZ1095 ZZ1049
Terpinolene	Monoterpene	Leaf Essential Oil Leaf	Not stated Not stated	Not stated 80-100 ppm	J10046 ZZ1095
Tetainine, lauro		Leaf	Not stated	Not stated	ZZ1095
Thymol	Monoterpene	Leaf Essential Oil	Brazil	Not stated	L12701
Tridecan-2-one	Alkanone C5 or More	Leaf Essential Oil	Not stated	Not stated	J10046
Undecan-2-one	Alkanone C5 or More	Leaf Essential Oil	Not stated	Not stated	J10046
Verbenol, trans-	Monoterpene	Leaf Essential Oil	Brazil	Not stated	L12701

Phytochemical Screening:  
Alkaloids Present      Leaf      T06418

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