

A Antihalitosic

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	# Chemicals	Total PPM
<i>Achillea millefolium</i> Yarrow; Milfoil	4	2640.0
<i>Acinos suaveolens</i>	3	
<i>Acorus calamus</i> Myrtle Flag; Sweetroot; Sweetflag; Calamus; Flagroot; Sweet Calamus	2	200.0
<i>Allium sativum</i> var. <i>sativum</i> Garlic	1	
<i>Aloysia citrodora</i> Lemon Verbena	1	840.0
<i>Alpinia officinarum</i> Lesser Galangal; Chinese Ginger	1	
<i>Alpinia galanga</i> Languas; Greater Galangal; Siamese Ginger	1	
<i>Amomum compactum</i> Round Cardamom; Chester Cardamom; Siam Cardamom; Java Cardamom	1	
<i>Apium graveolens</i> Celery	1	
<i>Arnica montana</i> Mountain Tobacco; Leopard's-Bane	1	
<i>Artemisia vulgaris</i> Mugwort	1	
<i>Artemisia salsoloides</i>	1	
<i>Artemisia herba-alba</i> Desert Wormwood	2	
<i>Artemisia dracunculus</i> Tarragon	2	2000.0
<i>Artemisia cina</i> Levant Wormseed	1	48000.0
<i>Artemisia annua</i> Qinghao; Sweet Annie; Sweet Wormwood (GRIN); Annual Mugwort (GRIN); Annual Wormwood (GRIN)	3	13200.0
<i>Brassica oleracea</i> var. <i>italica</i> Cape Broccoli; Calabrese; Broccoli; Purple Cauliflower; Heading Broccoli; Asparagus Broccoli; Sprouting Broccoli; Winter Broccoli	1	
<i>Brassica oleracea</i> var. <i>capitata</i> l. Red Cabbage; White Cabbage; Cabbage	1	
<i>Brassica oleracea</i> var. <i>botrytis</i> l. Cauliflower	1	
<i>Calamintha nepeta</i> Turkish Calamint	3	
<i>Callicarpa americana</i> American Beauty Berry; Beauty Berry; French Mulberry	1	
<i>Camellia sinensis</i> Tea	3	
<i>Capsicum frutescens</i> Chili; Spur Pepper; Cayenne; Hot Pepper; Red Chili; Tabasco	1	
<i>Capsicum annuum</i> Cherry Pepper; Sweet Pepper; Cone Pepper; Bell Pepper; Paprika; Green Pepper	1	
<i>Carum carvi</i> Carum; Comino de Prado (Sp.); Caraway; Kummel (Ger.); Comino (Sp.)	1	
<i>Chamaemelum nobile</i> Roman Camomile; Perennial Camomile; Garden Camomile	1	
<i>Chrysanthemum x morifolium</i> Florist's Chrysanthemum; Ju Hua (Pinyin); Chrysanthemum; Mum	2	
<i>Chrysanthemum parthenium</i> Feverfew	2	
<i>Chrysanthemum balsamita</i> Balsamite; Costmary	1	
<i>Cinnamomum verum</i> Ceylon Cinnamon; Cinnamon	1	1600.0
<i>Cinnamomum camphora</i> Ho Leaf; Camphor	1	6288.0
<i>Cinnamomum aromaticum</i> China Junk Cassia; Chinese Cassia; Saigon Cinnamon; Zimt cassie (Ger.); Chinazimt (Ger.); Canelero chino (Sp.); Cannelier de Chine (Fr.); Cassia Lignea; Cassia Bark; Canelle de Cochinchine (Fr.); Cannelier Casse (Fr.); Chinese Cinnamon; Cassia; Canela de la China (Sp.); Chinesischer Zimtbaum (Ger.); Kashia-Keihi (Jap.)	1	
<i>Citrus sinensis</i> Orange	1	
<i>Citrus reticulata</i> Mandarin; Tangerine	2	172.1
<i>Citrus aurantium</i> Petitgrain; Bitter Orange	1	2.0
<i>Citrus aurantiifolia</i> Lime	1	140.0
<i>Cleonia lusitanica</i> Spanish Heal-All	1	

Plant	# Chemicals	Total PPM
<i>Cocos nucifera</i> Kokospalme (Ger.); Nariyal; Cocotero (Sp.); Copra; Coconut; Coconut Palm	1	
<i>Coriandrum sativum</i> Cilantro; Coriander; Chinese Parsley	1	
<i>Coridothymus capitatus</i> Spanish Oregano	1	
<i>Crocus sativus</i> Saffron	1	
<i>Cuminum cyminum</i> Cumin	1	276.0
<i>Cunila origanoides</i> American Dittany; Maryland Dittany; Dittany; Mountain Dittany; Frost Flower; Stone Mint; Frost Mint	2	21308.0
<i>Curcuma zedoaria</i> Zedoary; Shoti	1	3840.0
<i>Curcuma longa</i> Turmeric; Indian Saffron	1	10295.0
<i>Cymbopogon nardus</i> Ceylon Citronella; Citronella	1	
<i>Cymbopogon citratus</i> West Indian Lemongrass; Lemongrass	1	
<i>Cyperus rotundus</i> Nutsedge	1	
<i>Daucus carota</i> Carrot	1	
<i>Dracocephalum thymiflora</i> Thyme-Flowered Moldavica	1	268.0
<i>Duboisia myoporoides</i> Pituri; Corkwood Tree	1	
<i>Elettaria cardamomum</i> Cardamom	1	112000.0
<i>Elsholtzia polystachya</i> Bush Mint	2	
<i>Elsholtzia pilosa</i> Hairy Mint Shrub	2	
<i>Elsholtzia cristata</i> Furan Chemotype	1	
<i>Elsholtzia blanda</i> Bantaluki; Bantulsi	1	
<i>Elytrigia repens</i> Couchgrass; Wheatgrass; Doggrass; Quackgrass; Twitchgrass	2	
<i>Eucalyptus viridis</i>	1	
<i>Eucalyptus tetraptera</i>	1	
<i>Eucalyptus tereticornis</i>	1	
<i>Eucalyptus stoatei</i>	1	
<i>Eucalyptus sparsa</i>	1	
<i>Eucalyptus</i> sp Gum	1	
<i>Eucalyptus sideroxyylon</i>	1	
<i>Eucalyptus siderophloia</i>	1	
<i>Eucalyptus saligna</i>	1	
<i>Eucalyptus punctata</i>	1	
<i>Eucalyptus porosa</i>	1	
<i>Eucalyptus populnea</i>	1	
<i>Eucalyptus polyanthemos</i>	1	
<i>Eucalyptus paniculata</i>	1	
<i>Eucalyptus oviformis</i>	1	
<i>Eucalyptus odorata</i>	1	
<i>Eucalyptus ochrophloia</i>	1	
<i>Eucalyptus occidentalis</i>	1	
<i>Eucalyptus nova-anglica</i> New England 'peppermint'	1	
<i>Eucalyptus moluccana</i>	1	
<i>Eucalyptus melliodora</i>	1	
<i>Eucalyptus melanophloia</i>	1	

Plant	# Chemicals	Total PPM
<i>Eucalyptus maideni</i>	1	
<i>Eucalyptus maculata</i> Gum	1	
<i>Eucalyptus leucoxylon</i>	1	
<i>Eucalyptus largisparsa</i>	1	
<i>Eucalyptus lansdowneana</i>	1	
<i>Eucalyptus intertexta</i>	1	
<i>Eucalyptus incrassata</i>	1	
<i>Eucalyptus globulus</i> Tasmanian Bluegum; Blue Gum; Eucalypt	1	63000.0
<i>Eucalyptus forrestiana</i>	1	
<i>Eucalyptus fasciculosa</i>	1	
<i>Eucalyptus erythrandra</i>	1	
<i>Eucalyptus dolichorhyncha</i>	1	
<i>Eucalyptus diversicolor</i>	1	
<i>Eucalyptus desquamata</i>	1	
<i>Eucalyptus dealbata</i>	1	
<i>Eucalyptus cuprea</i>	1	
<i>Eucalyptus cladocalyx</i>	1	
<i>Eucalyptus citriodora</i> Lemon Eucalyptus; Spotted Gum; Lemon-Scented Gum; Citron-Scented Gum	1	7160.0
<i>Eucalyptus ceratocorys</i>	1	
<i>Eucalyptus camaldulensis</i>	1	
<i>Eucalyptus bridgesiana</i> Bridges' Eucalyptus	2	
<i>Eucalyptus brassiana</i> Brasses' Eucalyptus	1	
<i>Eucalyptus botryoides</i>	1	
<i>Eucalyptus bosistoana</i>	1	
<i>Eucalyptus blakelyi</i>	1	
<i>Eucalyptus behriana</i>	1	
<i>Eucalyptus astringens</i>	1	
<i>Eucalyptus angulosa</i>	1	
<i>Eucalyptus albens</i>	1	
<i>Foeniculum vulgare</i> Fennel	1	600.0
<i>Fucus vesiculosus</i> Kelp; Bladderwrack	1	
<i>Ginkgo biloba</i> Ginkgo; Maidenhair Tree	1	
<i>Glechoma hederacea</i> Alehoof	2	74.0
<i>Glycine max</i> Soybean	1	
<i>Glycyrrhiza glabra</i> Smooth Licorice; Licorice-Root; Licorice; Commom Licorice	1	
<i>Hedeoma reverchonii</i> Reverchon's Pennyroyal	1	894.0
<i>Hedeoma pulegioides</i> American Pennyroyal	2	120.0
<i>Hedeoma drummondii</i> Drummond's Pennyroyal	2	4704.0
<i>Helianthus annuus</i> Girasol; Sunflower	1	
<i>Hibiscus sabdariffa</i> Rosella (Ger.); Rosa de Jamaica (Sp.); Red Sorrel; Roselle; Sorrel; Indian Sorrel; Jamaica Sorrel; Acedera de Guinea (Sp.); Sereni (Sp.); Kharkadi; Malventee (Ger.)	1	
<i>Houttuynia cordata</i> Yu Xing Cao; Dokudami; Fishwort	2	

Plant	# Chemicals	Total PPM
<i>Hypericum perforatum</i> Goatweed; Klamath Weed; Hypericum; St. John's-wort; Common St. Johnswort	1	
<i>Hyptis suaveolens</i> Wild Hops	3	9110.0
<i>Hyssopus officinalis</i> Hyssop	2	1226.0
<i>Ilex paraguariensis</i> Mate; South American Holly; Paraguay Tea	1	38000.0
<i>Illicium verum</i> anis de China (Sp.); Sternanis (Ger.); Star Anise; Chinesischer Sternanis (Ger.); Chinese Star Anise; anis estrellado (Sp.)	1	7000.0
<i>Isanthus brachiatus</i> False Pennyroyal	1	
<i>Juniperus sabina</i> Sabine	1	
<i>Juniperus communis</i> Common Juniper; Juniper	1	44.0
<i>Lantana camara</i> Lantana; Wild Sage	1	
<i>Laurus nobilis</i> Bay Laurel; Bayleaf; Bay; Grecian Laurel; Sweet Bay; Laurel	1	39800.0
<i>Lavandula x intermedia</i> Dutch Lavender; Lavandin	1	2220.0
<i>Lavandula x hybrida</i> Hybrid Lavender	1	
<i>Lavandula latifolia</i> Broad-Leaved Lavender; Aspic; Spike Lavender	1	6868.0
<i>Lavandula angustifolia</i> English Lavender	1	
<i>Lepechinia calycina</i> Epling's Lepechinia	1	1970.0
<i>Levisticum officinale</i> Lovage	2	
<i>Lindera benzoin</i> Fieberstrauch (Ger.); Wild Allspice; Spicebush; Benjamin Bush	1	
<i>Lippia graveolens</i> Oregano	1	
<i>Lippia alba</i> White Lippia	1	
<i>Litsea glaucescens</i> Mexican bay	1	
<i>Lycopersicon esculentum</i> Tomato	1	60.0
<i>Lycopus virginicus</i> Bugle	1	36.0
<i>Magnolia denudata</i> Xin-Yi; Hsin-I	1	
<i>Malus domestica</i> Apple	1	2.0
<i>Medicago sativa</i> Alfalfa; Lucerne	1	
<i>Melaleuca</i> sp Tea-Tree	1	
<i>Melaleuca cajuputi</i> Vietnamese Cajuput Oil	1	
<i>Melaleuca alternifolia</i> Teatree	1	
<i>Melissa officinalis</i> Lemonbalm; Balm; Melissa; Bee Balm	1	
<i>Mentha x rotundifolia</i> Applemint	1	160.0
<i>Mentha x piperita</i> Peppermint	2	31140.0
<i>Mentha spicata</i> Hortela da Folha Miuda; Spearmint	3	19900.0
<i>Mentha</i> sp Mint	1	
<i>Mentha pulegium</i> European Pennyroyal	3	7600.0
<i>Mentha longifolia</i> Biblical Mint	3	22810.0
<i>Mentha arvensis</i> var. <i>piperascens</i> Cornmint; Field Mint; Japanese Mint	2	50035.0
<i>Mentha aquatica</i> Water Mint	2	7140.0
<i>Micromeria thymifolia</i>	2	
<i>Micromeria teneriffae</i>	1	
<i>Micromeria myrtifolia</i> Topukcayi; Haydarotu; Dagcayi	2	
<i>Micromeria juliana</i>	1	

Plant	# Chemicals	Total PPM
<i>Micromeria fruticosa</i> Zuta; Zopha; Tea Hyssop	3	
<i>Micromeria congesta</i> Kaya Yarpuzu	2	
<i>Minthostachys mollis</i> Tipo; Muna	1	
<i>Moldavica thymiflora</i> Thyme-Flowered Moldavica	1	
<i>Monarda russeliana</i> Russel's Monarda	2	4154.0
<i>Monarda punctata</i> Horsemint	2	68994.0
<i>Monarda media</i> Mean Monarda	2	5286.0
<i>Monarda lindheimeri</i> Lindheimer's Monarda	1	956.0
<i>Monarda fistulosa</i> Wild Bergamot	2	51712.0
<i>Monarda didyma</i> Beebalm; Oswego Tea	2	5714.0
<i>Monarda clinopodia</i> Clinopod Bergamot	1	2766.0
<i>Monarda citriodora</i> Lemon Mint	2	17902.0
<i>Musa x paradisiaca</i> Banana; Plantain	1	206.0
<i>Myrciaria dubia</i> Camu-camu Negro (Peru); Guapuro Blanco (Bol.); Camu-camu (Eng.,Peru,Scn.,Sp.); Camo Camo (Peru); Araza de Agua (Sp.); Rumberry (Eng.)	1	
<i>Myristica fragrans</i> Mace; nuez moscada (Sp.); Nutmeg; Muskatnussbaum (Ger.); nogal moscado (Sp.)	1	9120.0
<i>Myrtus communis</i> Myrtle; Myrte (Ger.); Mirto (Sp.); Arrayan (Sp.)	1	4130.0
<i>Nepeta racemosa</i> Catmint	2	
<i>Nepeta cataria</i> Catnip	1	
<i>Nicotiana tabacum</i> Tobacco	1	
<i>Nigella sativa</i> Black Caraway; Nutmeg-Flower; Black Cumin; Fennel-Flower; Roman Coriander	1	
<i>Ocimum tenuiflorum</i> Anise-Scented Basil	2	
<i>Ocimum kilimandscharicum</i> African Blue Basil; Kenyan Perennial Basil	1	
<i>Ocimum gratissimum</i> Agbo; Shrubby Basil	2	
<i>Ocimum canum</i> Hoary Basil	1	
<i>Ocimum basilicum</i> Cuban Basil; Basil; Sweet Basil	3	3805.0
<i>Ononis spinosa</i> Restharrow; Hauhechel (Ger.); Spiny Restharrow	1	
<i>Origanum vulgare</i> Slender Turkish Oregano	2	10192.0
<i>Origanum syriacum</i> Za'Atar	1	
<i>Origanum sipyleum</i> Guveyoto; Bayircayi	2	
<i>Origanum onites</i> Pot Marjoram; Oregano	2	218.0
<i>Origanum minutiflorum</i> Small-Flowered Oregano	2	
<i>Panax ginseng</i> Korean Ginseng; Chinese Ginseng; Ginseng; Oriental Ginseng	2	
<i>Pelargonium graveolens</i> Scented Geranium; Rose Geranium	1	3704.0
<i>Petroselinum crispum</i> Parsley	1	
<i>Peumus boldus</i> Boldo	2	80000.0
<i>Phoenix dactylifera</i> Date Palm	1	820.0
<i>Pimenta racemosa</i> West Indian Bay; Bayrum Tree	1	1360.0
<i>Pimenta dioica</i> Allspice; Pimento; Clover-Pepper; Jamaica-Pepper; Pimenta	1	102.0
<i>Pinus sylvestris</i> Scotch Pine	1	
<i>Piper nigrum</i> White Pepper; Black Pepper; Pepper	1	
<i>Piper cubeba</i> Cubeb Pepper; Cubeb	1	2800.0

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<i>Piper auritum</i> Cordoncillo; Hoja Santa; Hierba Santa	1	
<i>Portulaca oleracea</i> Purslane; Verdolaga	1	
<i>Prunella vulgaris</i> Self-Heal; Heal-All	1	
<i>Pycnanthemum virginianum</i> Virginia Mountain Mint	3	6902.0
<i>Pycnanthemum verticillatum</i> Whorled Mountain Mint	1	84.0
<i>Pycnanthemum torreyi</i> Torrey's Mountain Mint	1	20.0
<i>Pycnanthemum tenuifolium</i> Slenderleaf Mountain Mint	2	3440.0
<i>Pycnanthemum setosum</i> Setose Mountain Mint	2	14198.0
<i>Pycnanthemum pycnanthemoides</i> Typical Mountain Mint	1	232.0
<i>Pycnanthemum pilosum</i> Pilose Mountain Mint	2	2940.0
<i>Pycnanthemum nudum</i> Nude Mountain Mint	1	46696.0
<i>Pycnanthemum muticum</i> Muticous Mountain Mint	2	1000.0
<i>Pycnanthemum montanum</i> Montane Mountain Mint	2	1504.0
<i>Pycnanthemum loomisii</i> Loomis' Mountain Mint	1	52080.0
<i>Pycnanthemum incanum</i> Hoary Mountain Mint	2	1748.0
<i>Pycnanthemum clinopodioides</i> Clinopod Mountain Mint	2	528.0
<i>Pycnanthemum californicum</i> California Mountain Mint	1	1152.0
<i>Pycnanthemum beadleii</i> Beadle's Mountain Mint	2	336.0
<i>Pycnanthemum albescens</i> White Mountain Mint	1	540.0
<i>Ravensara aromatica</i> Ravensara	1	
<i>Rheum palmatum</i> Chinese Rhubarb	1	
<i>Rhizophora mangle</i> Red Mangrove	1	4460.0
<i>Rhododendron dauricum</i> Chinese Alpenrose	1	
<i>Ribes nigrum</i> Black Currant	1	
<i>Rosmarinus x mendizabalii</i> Mendizabali's Rosemary	1	
<i>Rosmarinus x lavandulaceus</i> Lavender Rosemary	1	
<i>Rosmarinus tomentosus</i> Hairy Rosemary	1	
<i>Rosmarinus officinalis</i> Rosemary	2	16250.0
<i>Rosmarinus eriocalyx</i> Rosemary	1	
<i>Salvia triloba</i> Greek Sage	1	37200.0
<i>Salvia sclarea</i> Clary Sage	1	
<i>Salvia officinalis</i> Sage	3	12576.0
<i>Salvia dorisiana</i> 'Honduran' Sage	1	
<i>Salvia canariensis</i> Canary Island Sage	1	
<i>Sassafras albidum</i> Sassafras	1	
<i>Satureja thymbra</i> Goat Oregano	1	
<i>Satureja subspicata</i> Yugoslav Savory	2	
<i>Satureja parvifolia</i> Small-Leaf Pampa Savory	2	
<i>Satureja odora</i> Scented Pampa Savory	2	
<i>Satureja obovata</i> Savory; Iberian Savory	1	
<i>Satureja montana</i> Winter Savory; Savory	2	15502.0
<i>Satureja hortensis</i> Summer Savory	2	

Plant	# Chemicals	Total PPM
<i>Satureja grandiflora</i> French Savory	1	
<i>Satureja douglasii</i> Douglas' Savory	2	468.0
<i>Satureja cuneifolia</i> Cuneate Turkish Savory	2	
<i>Satureja cilicica</i> Turkish Savory	2	
<i>Sideritis scardica</i> Balkan Sideritis	2	
<i>Sideritis pauli</i> El Molinillo Sideritis	1	
<i>Sideritis mugronensis</i>	1	
<i>Sideritis germanicolpitana</i>	1	
<i>Sideritis athoa</i> Kedi Kuyrugu Cayi	2	
<i>Spinacia oleracea</i> Spinach	1	
<i>Stachys germanica</i> Downy Woundwort	1	96.0
<i>Stevia rebaudiana</i> Sweet Leaf of Paraguay; Ca-A-E; Stevia	1	
<i>Tagetes minuta</i> Muster John Henry; Dwarf Marigold; Wild Marigold; Stinking-Roger; Mexican Marigold; Aztec Marigold	1	250.0
<i>Tagetes lucida</i> Sweet-Mace; Anise Marigold; Sweet-Scent Mexican Marigold; Sweet-Scent Marigold	1	
<i>Tagetes erecta</i> Aztec Marigold; Marigold	1	86.0
<i>Tanacetum vulgare</i> Tansy	1	2600.0
<i>Tanacetum parthenium</i> Feverfew	2	
<i>Telosma cordata</i> Merrill flowers	1	
<i>Teucrium scorodonia</i> Wood Germander; Germander	2	
<i>Teucrium salviastrum</i>	2	
<i>Teucrium pseudoscorodonia</i>	2	
<i>Teucrium polium</i> Golden Germander; Iberian Golden Germander	2	
<i>Teucrium oxylepis</i>	2	
<i>Teucrium micropodioides</i> Small 'Cyprus' Germander	2	
<i>Teucrium kotschyanum</i> Stavros Kotschy's Germander	2	
<i>Teucrium gnaphalodes</i> Iberian Germander	2	
<i>Teucrium divaricatum</i> Hoary Divaricate Germander	2	
<i>Teucrium cyprium</i> 'Cyprus' Germander	2	
<i>Teucrium asiaticum</i>	2	
<i>Teucrium arduini</i> 'Croatian Alpine' Germander	1	
<i>Thymus zygis</i> Spanish Thyme	2	
<i>Thymus x citriodorus</i> Lemon Thyme; Funk's thyme	2	
<i>Thymus vulgaris</i> Thyme; Common Thyme; Garden Thyme	1	48200.0
<i>Thymus serpyllum</i> Creeping Thyme	2	190.0
<i>Thymus saturejoides</i> Moroccan Savory Thyme	1	
<i>Thymus riatarum</i> 'Moroccan' Thyme	1	
<i>Thymus orospedanus</i> Orosped Thyme	1	2556.0
<i>Thymus mastichina</i> Spanish Marjoram	2	15380.0
<i>Thymus longicaulis</i> Kekik; Tas Kekik	2	
<i>Thymus funkii</i> Funk's Thyme	2	
<i>Thymus cilicicus</i> 'Anatolian' Thyme	1	
<i>Thymus capitatus</i> Spanish Origanum; Spanish Thyme; 'Sicilian' Thyme	2	2020.0

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<i>Thymus broussonettii</i> Moroccan Thyme	1	
<i>Trachyspermum ammi</i> Ajwan	1	52400.0
<i>Turnera diffusa</i> Damiana	3	162200.0
<i>Umbellularia californica</i> California Bay	2	21360.0
<i>Vaccinium corymbosum</i> Blueberry	2	
<i>Valeriana officinalis</i> Valerian; Common Valerian; Garden-Heliotrope	2	
<i>Vetiveria zizanioides</i> Cus-Cus; Vetiver; Cuscus Grass	1	
<i>Vitex agnus-castus</i> Chaste-Tree	1	
<i>Zea mays</i> Corn	3	
<i>Zingiber officinale</i> Ginger	1	5490.0