

# A Insect-Repellent

\*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>Abies sachalinensis</i> Japanese Fir; Shin-Yo-Yu	1	7560.0
<i>Achillea moschata</i> Iva	1	3708.0
<i>Achillea millefolium</i> Milfoil; Yarrow	2	5210.0
<i>Acinos suaveolens</i>	1	
<i>Acinos alpinus</i> Te de Sierra Nevada	2	
<i>Acorus calamus</i> Sweetflag; Calamus; Flagroot; Sweetroot; Myrtle Flag; Sweet Calamus	2	
<i>Aframomum melegueta</i> Melegueta Pepper; Malagettapfeffer (Ger.); Grains-of-Paradise; Guinea Grains; Alligator Pepper; Malagueta (Sp.)	1	
<i>Ageratum conyzoides</i> Mexican ageratum	1	
<i>Aloysia citrodora</i> Lemon Verbena	1	
<i>Alpinia officinarum</i> Lesser Galangal; Chinese Ginger	1	
<i>Alpinia galanga</i> Greater Galangal; Languas; Siamese Ginger	2	
<i>Amomum xanthioides</i> Tavoy Cardamom; Bastard Cardamom; Chin Kousha; Malabar Cardamom	1	
<i>Amomum compactum</i> Round Cardamom; Chester Cardamom; Siam Cardamom; Java Cardamom	2	
<i>Anethum graveolens</i> Garden Dill; Dill	1	
<i>Angelica archangelica</i> Angelica; Garden Angelica; Wild Parsnip	1	
<i>Annona squamosa</i> Sugar-Apple; Sweetsop	2	
<i>Aristolochia serpentaria</i> Virginia Snakeroot; Serpentaria	1	
<i>Artemisia vulgaris</i> Mugwort	2	
<i>Artemisia salsoloides</i>	3	
<i>Artemisia herba-alba</i> Desert Wormwood	2	2184.0
<i>Artemisia dracunculus</i> Tarragon	1	400.0
<i>Artemisia annua</i> Annual Mugwort (GRIN); Sweet Wormwood (GRIN); Sweet Annie; Annual Wormwood (GRIN); Qinghao	2	15180.0
<i>Calamintha nepeta</i> Turkish Calamint	2	
<i>Callicarpa americana</i> American Beauty Berry; Beauty Berry; French Mulberry	1	
<i>Cannabis sativa</i> Indian Hemp; Hemp; Marijuana; Marihuana	3	
<i>Capsicum frutescens</i> Spur Pepper; Cayenne; Tabasco; Hot Pepper; Red Chili; Chili	1	
<i>Cedrus libani</i> Cedar of Lebanon	1	
<i>Chamaemelum nobile</i> Garden Camomile; Roman Camomile; Perennial Camomile	1	
<i>Chrysanthemum x morifolium</i> Florist's Chrysanthemum; Ju Hua (Pinyin); Mum; Chrysanthemum	2	
<i>Chrysanthemum parthenium</i> Feverfew	2	
<i>Chrysanthemum balsamita</i> Costmary; Balsamite	1	
<i>Cinnamomum verum</i> Cinnamon; Ceylon Cinnamon	2	16.0
<i>Cinnamomum camphora</i> Ho Leaf; Camphor	2	440580.0
<i>Cistus ladaniferus</i> Ambreine; Gum Cistus; Labdanum; Rockrose	1	3360.0
<i>Citrus aurantiifolia</i> Lime	1	120.0
<i>Cleonia lusitanica</i> Spanish Heal-All	2	
<i>Coriandrum sativum</i> Coriander; Chinese Parsley; Cilantro	2	2708.0
<i>Coridothymus capitatus</i> Spanish Oregano	1	

Plant	# Chemicals	Total PPM
<i>Crocus sativus</i> Saffron	2	
<i>Croton lechleri</i> Dragons Blood; Sangre de Grado; Sangre de Drago; Sangre de Dragon	1	
<i>Croton eluteria</i> Cascarilla	1	
<i>Curcuma xanthorrhiza</i> Temu Lawak; Javan Turmeric	1	
<i>Curcuma longa</i> Indian Saffron; Turmeric	2	
<i>Cymbopogon nardus</i> Citronella; Ceylon Citronella	1	120.0
<i>Cymbopogon flexuosus</i> East Indian Lemongrass	1	3000.0
<i>Daucus carota</i> Carrot	2	
<i>Diospyros virginiana</i> American Persimmon	1	
<i>Echinacea</i> spp Echinacea; Coneflower	1	
<i>Echinacea purpurea</i> Eastern Purple-Coneflower; Echinacea; Purple-Coneflower	1	
<i>Echinacea pallida</i> Pale-Flower Echinacea; Pale Purple-Coneflower; Echinacea	1	
<i>Echinacea angustifolia</i> Narrow Leaf Purple-Coneflower; Echinacea; Narrow Leaf Echinacea	1	
<i>Elettaria cardamomum</i> Cardamom	2	16040.0
<i>Elsholtzia densa</i>	1	
<i>Elsholtzia cristata</i> Furan Chemotype	1	
<i>Elsholtzia blanda</i> Bantaluki; Bantulsi	1	
<i>Eucalyptus viridis</i>	1	
<i>Eucalyptus tereticornis</i>	1	
<i>Eucalyptus sparsa</i>	1	
<i>Eucalyptus sideroxylon</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 moluccana</i>	1	
<i>Eucalyptus melliodora</i>	1	
<i>Eucalyptus melanophloia</i>	1	
<i>Eucalyptus maideni</i>	1	
<i>Eucalyptus maculata</i> Gum	1	
<i>Eucalyptus leucoxydon</i>	1	
<i>Eucalyptus largisparsa</i>	1	
<i>Eucalyptus lansdowneana</i>	1	
<i>Eucalyptus intertexta</i>	1	
<i>Eucalyptus globulus</i> Blue Gum; Tasmanian Bluegum; Eucalypt	1	

Plant	# Chemicals	Total PPM
<i>Eucalyptus fasciculosa</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	
<i>Eucalyptus camaldulensis</i>	1	
<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 albens</i>	1	
<i>Eupatorium triplinerve</i> Triplinerved eupatorium	1	
<i>Ferula gummosa</i> Galbanum	1	
<i>Foeniculum vulgare</i> Fennel	1	360.0
<i>Gardenia jasminoides</i> Shan-Chih-Tzu; Cape Jasmine; Shan-Zhi-Zi; Gardenia; Jasmin; Zhi Zi	1	
<i>Glechoma hederacea</i> Alehoof	1	10.0
<i>Glycyrrhiza glabra</i> Licorice; Licorice-Root; Smooth Licorice; Commom Licorice	1	
<i>Hedeoma reverchonii</i> Reverchon's Pennyroyal	2	5118.0
<i>Hedeoma hispida</i> Hispid Pennyroyal	1	428.0
<i>Hedeoma drummondii</i> Drummond's Pennyroyal	2	9172.0
<i>Helianthus annuus</i> Girasol; Sunflower	2	
<i>Hypericum perforatum</i> Common St. Johnswort; Klamath Weed; Hypericum; St. John's-wort; Goatweed	1	
<i>Hyptis suaveolens</i> Wild Hops	2	
<i>Hyssopus officinalis</i> Hyssop	2	9048.0
<i>Juniperus communis</i> Juniper; Common Juniper	2	14.0
<i>Kaempferia galanga</i> Maraba; Galanga	1	
<i>Lantana camara</i> Wild Sage; Lantana	1	
<i>Larrea tridentata</i> Chaparral; Creosote Bush	2	
<i>Laurus nobilis</i> Bayleaf; Bay Laurel; Laurel; Grecian Laurel; Sweet Bay; Bay	2	
<i>Lavandula x intermedia</i> Lavandin; Dutch Lavender	2	3900.0
<i>Lavandula x hybrida</i> Hybrid Lavender	2	
<i>Lavandula sp</i> Lavender	1	
<i>Lavandula latifolia</i> Broad-Leaved Lavender; Aspic; Spike Lavender	2	8118.0
<i>Lavandula angustifolia</i> English Lavender	2	
<i>Leonotis leonurus</i> Lion's Ear	1	
<i>Lepechinia calycina</i> Epling's Lepechinia	1	1750.0
<i>Levisticum officinale</i> Lovage	2	20.0
<i>Lindera benzoin</i> Spicebush; Fieberstrauch (Ger.); Wild Allspice; Benjamin Bush	1	

Plant	# Chemicals	Total PPM
<i>Lippia dulcis</i> Sweet Herb	1	
<i>Lippia alba</i> White Lippia	1	
<i>Liquidambar styraciflua</i> Sweetgum; American Styra	1	
<i>Magnolia kobus</i> Hsin-I; Xin-Yi	1	
<i>Magnolia fargesii</i> Xin-Yi; Hsin-I	1	
<i>Matricaria recutita</i> Annual Camomile; German Camomile; Wild Camomile	1	
<i>Melaleuca alternifolia</i> Teatree	1	
<i>Mentha spicata</i> Spearmint; Hortela da Folha Miuda	1	
<i>Mentha longifolia</i> Biblical Mint	1	2500.0
<i>Mentha arvensis</i> var. <i>piperascens</i> Field Mint; Japanese Mint; Cornmint	1	
<i>Micromeria varia</i> Madeiran 'Hyssop'	1	
<i>Micromeria thymifolia</i>	1	
<i>Micromeria teneriffae</i>	1	
<i>Micromeria myrtifolia</i> Dagcayi; Topukcayi; Haydarotu	1	
<i>Micromeria juliana</i>	1	
<i>Micromeria fruticosa</i> Tea Hyssop; Zuta; Zopha	1	
<i>Micromeria croatica</i>	2	
<i>Monarda didyma</i> Oswego Tea; Beebalm	1	164.0
<i>Myrtus communis</i> Mirto (Sp.); Arrayan (Sp.); Myrte (Ger.); Myrtle	2	36.0
<i>Nepeta racemosa</i> Catmint	1	
<i>Nepeta cataria</i> Catnip	1	160.0
<i>Ocimum tenuiflorum</i> Anise-Scented Basil	2	
<i>Ocimum kilimandscharicum</i> Kenyan Perennial Basil; African Blue Basil	1	
<i>Ocimum gratissimum</i> Agbo; Shrubby Basil	2	
<i>Ocimum canum</i> Hoary Basil	1	
<i>Ocimum basilicum</i> Basil; Sweet Basil; Cuban Basil	2	62.0
<i>Origanum vulgare</i> Common Turkish Oregano; Greek Oregano; Wild Oregano	2	584.0
<i>Origanum syriacum</i> Za'Atar	2	
<i>Origanum sipyleum</i> Bayircayi; Guveyoto	2	
<i>Origanum onites</i> Oregano; Pot Marjoram	2	630.0
<i>Origanum majorana</i> Sweet Marjoram; Marjoram	1	
<i>Origanum creticum</i> Dittany Of Crete	1	
<i>Peumus boldus</i> Boldo	1	300.0
<i>Pimenta racemosa</i> Bayrum Tree; West Indian Bay	1	
<i>Pinus walliciana</i> Bhutan Pine	1	
<i>Pinus sylvestris</i> Scotch Pine	1	
<i>Pinus elliottii</i> Slash Pine	1	
<i>Piper nigrum</i> White Pepper; Black Pepper; Pepper	2	
<i>Piper auritum</i> Cordoncillo; Hierba Santa; Hoja Santa	2	
<i>Plectranthus coleoides</i>	1	
<i>Pycnanthemum tenuifolium</i> Slenderleaf Mountain Mint	2	520.0
<i>Pycnanthemum setosum</i> Setose Mountain Mint	1	496.0

Plant	# Chemicals	Total PPM
<i>Pycnanthemum pycnanthemoides</i> Typical Mountain Mint	2	464.0
<i>Pycnanthemum muticum</i> Muticous Mountain Mint	1	2700.0
<i>Pycnanthemum montanum</i> Montane Mountain Mint	2	7808.0
<i>Pycnanthemum incanum</i> Hoary Mountain Mint	1	114.0
<i>Pycnanthemum clinopodioides</i> Clinopod Mountain Mint	1	88.0
<i>Pycnanthemum beadlei</i> Beadle's Mountain Mint	1	84.0
<i>Rhododendron dauricum</i> Chinese Alpenrose	1	
<i>Rosmarinus x mendizabalii</i> Mendizabali's Rosemary	2	
<i>Rosmarinus x lavandulaceus</i> Lavender Rosemary	2	
<i>Rosmarinus tomentosus</i> Hairy Rosemary	2	
<i>Rosmarinus officinalis</i> Rosemary	2	20074.0
<i>Rosmarinus eriocalyx</i> Rosemary	2	
<i>Salvia triloba</i> Greek Sage	1	10080.0
<i>Salvia sclarea</i> Clary Sage	1	
<i>Salvia officinalis</i> Sage	2	32648.0
<i>Salvia gilliesii</i> 'Cordoba' Sage	1	
<i>Salvia canariensis</i> Canary Island Sage	2	
<i>Santalum album</i> White Sandalwood	1	
<i>Sassafras albidum</i> Sassafras	1	
<i>Satureja thymbra</i> Goat Oregano	1	
<i>Satureja subspicata</i> Yugoslav Savory	1	
<i>Satureja obovata</i> Savory; Iberian Savory	1	
<i>Satureja montana</i> Winter Savory; Savory	2	
<i>Satureja hortensis</i> Summer Savory	2	
<i>Satureja douglasii</i> Douglas' Savory	2	13702.0
<i>Satureja cuneifolia</i> Cuneate Turkish Savory	1	
<i>Sideritis scardica</i> Balkan Sideritis	1	
<i>Sideritis pauli</i> El Molinillo Sideritis	1	
<i>Sideritis athoa</i> Kedi Kuyruğu Cayi	1	
<i>Stevia rebaudiana</i> Ca-A-E; Sweet Leaf of Paraguay; Stevia	2	
<i>Tanacetum vulgare</i> Tansy	2	3600.0
<i>Tanacetum parthenium</i> Feverfew	3	
<i>Teucrium scorodonia</i> Wood Germander; Germander	2	
<i>Teucrium salviastrum</i>	2	
<i>Teucrium pseudoscorodonia</i>	2	
<i>Teucrium polium</i> Golden Germander	2	
<i>Teucrium oxylepis</i>	2	
<i>Teucrium micropodioides</i> Small 'Cyprus' Germander	1	
<i>Teucrium kotschyanum</i> Stavros Kotschy's Germander	1	
<i>Teucrium gnaphalodes</i> Iberian Germander	1	
<i>Teucrium divaricatum</i> Hoary Divaricate Germander	1	
<i>Teucrium cyprum</i> 'Cyprus' Germander	1	

Plant	# Chemicals	Total PPM
<i>Teucrium asiaticum</i>	2	
<i>Thuja occidentalis</i> Arbor-Vitae; Northern White-Cedar	3	
<i>Thymus zygis</i> Spanish Thyme	2	
<i>Thymus x citriodorus</i> Funk's thyme; Lemon Thyme	2	
<i>Thymus vulgaris</i> Thyme; Common Thyme; Garden Thyme	2	2924.0
<i>Thymus serpyllum</i> Creeping Thyme	1	1146.0
<i>Thymus saturejoides</i> Moroccan Savory Thyme	2	
<i>Thymus riatarum</i> 'Moroccan' Thyme	2	
<i>Thymus orospedanus</i> Orosped Thyme	2	3186.0
<i>Thymus mastichina</i> Spanish Marjoram	2	1600.0
<i>Thymus longicaulis</i> Kekik; Tas Kekik	1	
<i>Thymus funkii</i> Funk's Thyme	2	
<i>Thymus cilicicus</i> 'Anatolian' Thyme	1	
<i>Thymus capitatus</i> 'Sicilian' Thyme; Spanish Thyme; Spanish Origanum	2	660.0
<i>Thymus broussonettii</i> Moroccan Thyme	2	
<i>Valeriana officinalis</i> Garden-Heliotrope; Valerian; Common Valerian	2	
<i>Vitex agnus-castus</i> Chaste-Tree	1	
<i>Zingiber officinale</i> Ginger	2	120.0