

# A Vermicide

\*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 spectabilis</i>	1	
<i>Achillea millefolium</i> Milfoil; Yarrow	2	
<i>Acinos suaveolens</i>	2	
<i>Amomum compactum</i> Chester Cardamom; Java Cardamom; Siam Cardamom; Round Cardamom	1	
<i>Anethum graveolens</i> Garden Dill; Dill	1	
<i>Angelica archangelica</i> Angelica; Wild Parsnip; Garden Angelica	1	
<i>Apium graveolens</i> Celery	2	152.0
<i>Areca catechu</i> Pin-Lang; Betel Nut	1	2000.0
<i>Arnica montana</i> Leopard's-Bane; Mountain Tobacco	1	
<i>Artemisia salsoloides</i>	1	
<i>Artemisia herba-alba</i> Desert Wormwood	1	
<i>Artemisia dracunculus</i> Tarragon	1	
<i>Artemisia annua</i> Sweet Wormwood (GRIN); Annual Mugwort (GRIN); Sweet Annie; Qinghao; Annual Wormwood (GRIN)	2	
<i>Brassica oleracea</i> var. <i>capitata</i> l. White Cabbage; Red Cabbage; Cabbage	1	
<i>Calamintha nepeta</i> Turkish Calamint	1	
<i>Camellia sinensis</i> Tea	1	
<i>Canarium indicum</i> Manila Elemi; Java-Olive	1	1000.0
<i>Capsicum frutescens</i> Tabasco; Spur Pepper; Red Chili; Cayenne; Chili; Hot Pepper	1	
<i>Carica papaya</i> Papaya	1	5500.0
<i>Carum carvi</i> Kummel (Ger.); Caraway; Comino de prado (Sp.); Comino (Sp.); Carum	1	94860.0
<i>Cephaelis ipecacuanha</i> Raicilla; Ipecac	1	61500.0
<i>Chrysanthemum x morifolium</i> Ju Hua (Pinyin); Florist's Chrysanthemum; Chrysanthemum; Mum	1	
<i>Chrysanthemum parthenium</i> Feverfew	1	
<i>Citrus sinensis</i> Orange	2	20.0
<i>Citrus reticulata</i> Tangerine; Mandarin	2	26.1
<i>Citrus aurantium</i> Bitter Orange; Petitgrain	2	2.0
<i>Coriandrum sativum</i> Coriander; Cilantro; Chinese Parsley	1	52.0
<i>Coridothymus capitatus</i> Spanish Oregano	2	
<i>Cunila origanoides</i> Frost Mint; Stone Mint; Frost Flower; Dittany; American Dittany; Maryland Dittany; Mountain Dittany	1	21252.0
<i>Cymbopogon martinii</i> Palmarosa; Rosha Grass	1	
<i>Daucus carota</i> Carrot	1	
<i>Elsholtzia polystachya</i> Bush Mint	1	
<i>Elsholtzia pilosa</i> Hairy Mint Shrub	1	
<i>Elytrigia repens</i> Twitchgrass; Quackgrass; Doggrass; Wheatgrass; Couchgrass	2	

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<i>Eruca sativa</i> Jambeho (Sind.; KAB); Ackerrauke (Ger.; MAD); Kibana suzushiro (Jap.; TAN); Oroth (Bible; EB52:394); Djerdjir (Arab.; BOU); Ugragandha (Sansk.; KAB); Eihukan (Iran; NAD); Siddartha (Sansk.; DEP; SKJ); Baglet (Arab.; BOU); Tuverika (Sansk.; KAB); Ruca (Catalan; KAB); Rocket Salad (Eng.; USN); Kadambaka (Sansk.; KAB); Rajakshavaka (Sansk.; KAB); Mandao (Afg.; DEP; KAB); Tantuka (Sansk.; KAB); Lamba (India; USN); Jamnia (Punjab; DEP); Rugula (Eng.; USN); Salad Rocket (Eng.; USN); Tanakfail (Berber; BOU); Tira (Nwp.; DEP; KAB); Kadamba (Sansk.; KAB); Achnef (Berber; BOU); Suffed shorshi (Bengal; DEP); Bou kahli (Arab.; BOU); Jambeh (Iran; DEP; KAB); Roquette (Eng.; Fr.; BOU); Taramira (India; Nwp.); Sidhaprayojana (Sansk.; KAB); Rucola (It.; Malta; Sp.); Shwetsursha (Bengal; SKJ); Shiltam (Arab.; BOU); Sahwan (Nwp.; KAB); Rabano silvestre (It.; Port.); Lalu (Nwp.; KAB); Mulai (Loralai; KAB); Rocket (Eng.; BOU); Roqueta (Sp.; USN); Duan (Nwp.; KAB); Rawk (Arab.; BOU); Tantubha (Sansk.; KAB); Assu (Punjab; SKJ); Daradharsha (Sansk.; KAB); Ai'sha (Arab.; BOU); Senfrauake (Ger.; USN); Jamba (India); Sidharta (Sansk.; KAB); Ruke (Ger.; USN); Roquette des jardins (Fr.;KAB); Chara (Kumaon; DEP); Olrauke (Ger.; USN); Tara (Nwp.; Punjab; KAB; SKJ); Rakshitaphala (Sansk.; KAB); Sarishapa (Sansk.; KAB); Rucheta (Malta; KAB); Bimbata (Sansk.; KAB); Gery (Arab.; BOU); Euzomon (Greece; EB54:155); Roquette vraie (Fr.; BOU); Aruca (Malta; KAB); Ai'afein (Arab.; BOU); Sarshapa (Sansk.; KAB); Arugula (Eng.; FAC; USN); Rouka (Arab.; BOU); Garden Rocket (Eng.; USN); Horf (Arab.; BOU); Izgin (Turkey; EB54:155); Bhutaghna (Sansk.; SKJ); Dua (Kumaon; DEP); Kerkas (Arab.; BOU); Roquette cultivee (Fr.; KAB); Eruca (Malta; KAB); Rajika (Sansk.; KAB); Grahagna (Sansk.; KAB); Sfed sarson (Hindi; MPI); Thorfel (Berber; BOU); Oruga comun (Sp.; USN); Piao erh ts'ai (Chi.; TAN); Gargir (Arab.; Hebrew; BOU); Jambho (Sind.; DEP)	1	
<i>Eucalyptus viridis</i>	1	
<i>Eucalyptus sparsa</i>	1	
<i>Eucalyptus porosa</i>	1	
<i>Eucalyptus populnea</i>	1	
<i>Eucalyptus odorata</i>	1	
<i>Eucalyptus ochrophloia</i>	1	
<i>Eucalyptus melanophloia</i>	1	
<i>Eucalyptus leucoxylon</i>	1	
<i>Eucalyptus largisparsa</i>	1	
<i>Eucalyptus lansdowneana</i>	1	
<i>Eucalyptus intertexta</i>	1	
<i>Eucalyptus globulus</i> Eucalypt; Tasmanian Bluegum; Blue Gum	1	
<i>Eucalyptus fasciculosa</i>	1	
<i>Eucalyptus desquamata</i>	1	
<i>Eucalyptus cuprea</i>	1	
<i>Eucalyptus citriodora</i> Citron-Scented Gum; Lemon-Scented Gum; Lemon Eucalyptus; Spotted Gum	1	
<i>Eucalyptus bridgesiana</i> Bridges' Eucalyptus	2	
<i>Eucalyptus brassiana</i> Brasses' Eucalyptus	1	
<i>Eucalyptus behriana</i>	1	
<i>Ginkgo biloba</i> Maidenhair Tree; Ginkgo	1	
<i>Glycyrrhiza glabra</i> Smooth Licorice; Licorice; Commom Licorice; Licorice-Root	1	
<i>Hedeoma pulegioides</i> American Pennyroyal	1	
<i>Hedera helix</i> Ivy	1	
<i>Houttuynia cordata</i> Yu Xing Cao; Dokudami; Fishwort	1	
<i>Hyptis suaveolens</i> Wild Hops	1	
<i>Hyssopus officinalis</i> Hyssop	1	6.0
<i>Illicium verum</i> anis estrellado (Sp.); Star Anise; anis de China (Sp.); Chinese Star Anise; Sternanis (Ger.); Chinesischer Sternanis (Ger.)	1	2.0
<i>Laurus nobilis</i> Bay; Bay Laurel; Bayleaf; Grecian Laurel; Laurel; Sweet Bay	1	
<i>Lavandula x intermedia</i> Lavandin; Dutch Lavender	1	
<i>Lavandula latifolia</i> Aspic; Spike Lavender; Broad-Leaved Lavender	1	10.0
<i>Levisticum officinale</i> Lovage	1	200.0
<i>Lippia graveolens</i> Oregano	1	

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<i>Litsea glaucescens</i> Mexican bay	1	
<i>Melissa officinalis</i> Lemonbalm; Bee Balm; Melissa; Balm	1	
<i>Mentha x rotundifolia</i> Applemint	1	10000.0
<i>Mentha x piperita</i> Peppermint	1	264.0
<i>Mentha spicata</i> Hortela da Folha Miuda; Spearmint	2	40000.0
<i>Mentha pulegium</i> European Pennyroyal	1	
<i>Mentha longifolia</i> Biblical Mint	2	59150.0
<i>Mentha arvensis</i> var. <i>piperascens</i> Field Mint; Japanese Mint; Cornmint	1	52000.0
<i>Mentha aquatica</i> Water Mint	1	3570.0
<i>Micromeria myrtifolia</i> Dagcayi; Topukcayi; Haydarotu	2	
<i>Micromeria juliana</i>	2	
<i>Micromeria fruticosa</i> Tea Hyssop; Zuta; Zopha	2	
<i>Micromeria congesta</i> Kaya Yarpuzu	2	
<i>Monarda russeliana</i> Russel's Monarda	1	3504.0
<i>Monarda punctata</i> Horsemint	1	55266.0
<i>Monarda media</i> Mean Monarda	1	2584.0
<i>Monarda fistulosa</i> Wild Bergamot	1	41700.0
<i>Monarda didyma</i> Oswego Tea; Beebalm	1	100.0
<i>Monarda citriodora</i> Lemon Mint	1	16674.0
<i>Myrciaria dubia</i> Camu-camu (Eng.,Peru,Scn.,Sp.); Rumberry (Eng.); Araza de Agua (Sp.); Guapuro Blanco (Bol.); Camo Camo (Peru); Camu-camu Negro (Peru)	1	
<i>Myrtus communis</i> Myrtle; Arrayan (Sp.); Mirto (Sp.); Myrte (Ger.)	1	24.0
<i>Nepeta racemosa</i> Catmint	1	
<i>Nepeta cataria</i> Catnip	1	
<i>Nigella sativa</i> Fennel-Flower; Nutmeg-Flower; Black Cumin; Roman Coriander; Black Caraway	2	19200.0
<i>Ocimum tenuiflorum</i> Anise-Scented Basil	1	
<i>Ocimum gratissimum</i> Agbo; Shrubby Basil	1	
<i>Ocimum basilicum</i> Sweet Basil; Basil; Cuban Basil	2	2830.0
<i>Ononis spinosa</i> Hauhechel (Ger.); Spiny Restharrow; Restharrow	1	
<i>Origanum vulgare</i> Wild Oregano; Common Turkish Oregano; European Oregano; Oregano; Wild Marjoram; Pot Marjoram	2	10000.0
<i>Origanum syriacum</i> Za'Atar	2	
<i>Origanum sipyleum</i> Bayircayi; Guveyoto	1	
<i>Origanum onites</i> Oregano; Pot Marjoram	2	172.0
<i>Origanum minutiflorum</i> Small-Flowered Oregano	1	
<i>Origanum majorana</i> Marjoram; Sweet Marjoram	1	138.0
<i>Panax ginseng</i> Oriental Ginseng; Ginseng; Chinese Ginseng; Korean Ginseng	1	
<i>Petroselinum crispum</i> Parsley	1	
<i>Peumus boldus</i> Boldo	1	
<i>Piper nigrum</i> White Pepper; Black Pepper; Pepper	1	
<i>Piper betel</i> Betel Pepper	1	
<i>Plectranthus coleoides</i>	1	
<i>Pycnanthemum virginianum</i> Virginia Mountain Mint	1	754.0
<i>Pycnanthemum tenuifolium</i> Slenderleaf Mountain Mint	1	2640.0

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<i>Pycnanthemum setosum</i> Setose Mountain Mint	1	372.0
<i>Pycnanthemum nudum</i> Nude Mountain Mint	1	46696.0
<i>Pycnanthemum loomisii</i> Loomis' Mountain Mint	1	84.0
<i>Pycnanthemum curvipes</i> Curved Mountain Mint	1	84.0
<i>Pycnanthemum clinopodioides</i> Clinopod Mountain Mint	1	88.0
<i>Pycnanthemum albescens</i> White Mountain Mint	1	28620.0
<i>Rosmarinus officinalis</i> Rosemary	2	1520.0
<i>Salvia officinalis</i> Sage	1	
<i>Salvia gilliesii</i> 'Cordoba' Sage	1	
<i>Salvia canariensis</i> Canary Island Sage	1	
<i>Satureja thymbra</i> Goat Oregano	2	
<i>Satureja subspicata</i> Yugoslav Savory	2	
<i>Satureja obovata</i> Iberian Savory; Savory	1	
<i>Satureja montana</i> Winter Savory; Savory	2	15502.0
<i>Satureja hortensis</i> Summer Savory	1	
<i>Satureja douglasii</i> Douglas' Savory	2	4758.0
<i>Satureja cuneifolia</i> Cuneate Turkish Savory	1	
<i>Satureja cilicica</i> Turkish Savory	1	
<i>Sideritis scardica</i> Balkan Sideritis	2	
<i>Sideritis athoa</i> Kedi Kuyruğu Cayı	1	
<i>Syzygium aromaticum</i> Clove; Clovetree	1	
<i>Tanacetum parthenium</i> Feverfew	1	
<i>Teucrium scorodonia</i> Germander; Wood 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	1	
<i>Teucrium kotschyianum</i> Stavros Kotschy's Germander	1	
<i>Teucrium gnaphalodes</i> Iberian Germander	2	
<i>Teucrium divaricatum</i> Hoary Divaricate Germander	1	
<i>Teucrium cyprium</i> 'Cyprus' Germander	1	
<i>Teucrium asiaticum</i>	2	
<i>Thymus zygis</i> Spanish Thyme	1	
<i>Thymus x citriodorus</i> Funk's thyme; Lemon Thyme	1	
<i>Thymus vulgaris</i> Garden Thyme; Common Thyme; Thyme	2	48200.0
<i>Thymus serpyllum</i> Creeping Thyme	1	114.0
<i>Thymus saturejoides</i> Moroccan Savory Thyme	1	
<i>Thymus riatarum</i> 'Moroccan' Thyme	2	
<i>Thymus orospedanus</i> Orosped Thyme	1	2556.0
<i>Thymus mastichina</i> Spanish Marjoram	1	380.0
<i>Thymus longicaulis</i> Kekik; Tas Kekik	1	

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<i>Thymus funkii</i> Funk's Thyme	2	
<i>Thymus cilicicus</i> 'Anatolian' Thyme	1	
<i>Thymus capitatus</i> 'Sicilian' Thyme; Spanish Origanum; Spanish Thyme	2	1960.0
<i>Thymus broussonettii</i> Moroccan Thyme	1	
<i>Trachyspermum ammi</i> Ajwan	1	52400.0
<i>Trigonella foenum-graecum</i> Greek Hay; Fenugreek; Bockshornklee (Ger.); Greek Clover; Alholva (Sp.)	1	
<i>Turnera diffusa</i> Damiana	1	
<i>Umbellularia californica</i> California Bay	1	2640.0
<i>Vaccinium corymbosum</i> Blueberry	1	
<i>Valeriana officinalis</i> Valerian; Garden-Heliotrope; Common Valerian	2	
<i>Zea mays</i> Corn	1	