

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals and their Biological Activities in: *Lavandula angustifolia* MILLER (Lamiaceae) -- English Lavender

Chemicals

1,8-CINEOLE Flower:

(-)-Chronotropic 87 nl/ml; (-)-Inotropic; Acaricide $LC_{100}=6\ \mu M$; Allelopathic; Allergenic; Anesthetic; Anthelmintic; Antiacetylcholinesterase $IC_{50}=41\ \mu g/ml$; Antiallergic; Antibacterial 50 ppm; Antibronchitic; Anticariogenic; Anticatarrh; Anticholinesterase $IC_{50}=50-70$; Antifatigue; Antihalitosis; Antiinflammatory; Antilaryngitic; Antinociceptive; Antipharyngitic; Antiplaque; Antirheumatic; Antirhinitic; Antiseptic; Antisinusitic; Antispasmodic; Antistaphylococcic 50 ppm; Antitussive; Antiulcer; Candidicide; Carcinogenic; Choloretic; CNS-Stimulant; Convulsant; Counterirritant; Cytochrome-P450-Inducer; Decongestant; Degranulant 0.3 ul/ml; Dentifrice; Edemagenic inj; Expectorant; FLavor FEMA 1-200; Fungicide; Gastroprotective; Gram(+)-icide; Gram(-)-icide; Hepatotonic; Herbicide $IC_{50}=78\ \mu M$; Hypotensive; Inflammatory inj; Insectifuge; Irritant; Myorelaxant; Nematicide; Neurotoxic; P450-Inducer; Pediculicide 2.3 x pyrethrin; Perfume; Pesticide; Rubefacient; Secretagogue; Sedative; Spasmogenic; Surfactant; Testosterone-Hydroxylase-Inducer; Transdermal; Trichomonicide $LD_{100}=1,000\ \mu g/ml$

1-OCTEN-3-OL Flower:

No activity reported.

1-OCTEN-3-YL-ACETATE Flower:

No activity reported.

2,6-DIMETHYL-5-ACETOXYMETHYL-HEPT-6-EN-3-ONE Flower:

No activity reported.

2,6-DIMETHYL-5-ACETOXYMETHYL-HEPTA-1,6-DIEN-3-ONE Flower:

No activity reported.

2,6-DIMETHYL-6-ACETOXY-OCT-7-EN-3-ONE Flower:

No activity reported.

2,6-DIMETHYL-6-ACETOXY-OCTA-1,7-DIEN-3-ONE Flower:

No activity reported.

2-METHYL-BUT-3-EN-1-OL Flower:

No activity reported.

4-BUTANOLIDE *Flower:*

No activity reported.

5-PENTYL-5-PENTANOLIDE *Flower:*

No activity reported.

ALPHA-NORSANTALENONE *Flower:*

No activity reported.

ALPHA-PHOTOSANTALOL-A *Flower:*

No activity reported.

ALPHA-PHOTOSANTALOL-B *Flower:*

No activity reported.

ALPHA-PINENE *Plant:*

Allelochemic; Allergenic; Antiacne; Antibacterial; Antifeedant; Antiflu;
Antiinflammatory 500 mg/kg; Antipneumonic; Antiseptic; Antispasmodic;
Antistaphylococcic; Antiviral; Cancer-Preventive; Coleoptophile; Expectorant; FLavor
FEMA 15-150; Herbicide IC50=30 uM; Insecticide 0.82 uM/fly; Insectifuge 50 ppm;
Insectiphile; Irritant; P450-2B1-Inhibitor IC50=0.087 uM; Perfumery; Pesticide;
Sedative; Spasmogenic; Tranquilizer; Transdermal

ALPHA-SANTALAL *Flower:*

No activity reported.

ALPHA-SANTALENE *Flower:*

No activity reported.

ALPHA-SANTALENIC-ACID *Flower:*

No activity reported.

AMYL-ALCOHOL *Plant:*

FLavor FEMA 35-3,500 ppm

BERGAMOTENE *Plant:*

No activity reported.

BETA-PHELLANDRENE *Flower:*

Expectorant; Fungicide; Perfumery

BETA-PINENE *Plant:*

Allergenic; Antiinflammatory; Antiseptic; Antispasmodic; Candidicide; FLavor FEMA
15-600; Herbicide; Insectifuge; Irritant; Perfumery; Pesticide; Spasmogenic;
Transdermal

BETA-SANTALENE *Flower:*

Antiinflammatory; Perfumery

BORNEOL *Plant:*

(-)-Chronotropic 29 ug/ml; (-)-Inotropic; Allelochemic; Analgesic; Antiacetylcholine;
Antibacterial MIC=125-250 ug/ml; Antibronchitic; Antiescherichic MIC=125 ug/ml;

Antifeedant; Antiinflammatory; Antiotitic; Antipyretic; Antisalmonella; Antispasmodic $ED_{50}=0.008\text{ mg/ml}$; Antistaphylococcic $MIC=250\text{ ug/ml}$; Antiyeast; Candidicide; Choleric; CNS-Stimulant; CNS-Toxic; FLavor $FEMA<1$; Fungicide; Hepatoprotective; Herbicide $IC_{50}=470\text{ mM}$ $IC_{50}=470\text{ uM}$; Inhalant; Insect-Repellent; Insectifuge; Irritant; Myorelaxant; Nematicide $MLC=1\text{ mg/ml}$; Perfumery; Pesticide; Sedative; Tranquilizer

BORNYL-ACETATE Plant 2,250 - 6,750 ppm

(-)-Chronotropic 933 nl/ml; (-)-Inotropic; Antibacterial; Antifeedant; Antispasmodic $ED_{50}=0.09\text{ mg/ml}$; Antiviral; Expectorant; FLavor $FEMA\ 70-80$; Insectifuge; Myorelaxant; Pesticide; Sedative

CAMPHENE Plant:

Allelopathic; Antilithic?; Antioxidant; Expectorant; FLavor $FEMA\ 15-175$; Hypocholesterolemic?; Insectifuge; Pesticide; Spasmogenic

CAMPHOR Flower:

Allelopathic; Analgesic; Anesthetic; Antiacne; Antidiarrheic 500 ug/ml; Antidysenteric; Antiemetic 100-200 mg man orl; Antifeedant $IC_{50}=5,000\text{ ppm diet}$; Antifibrositic; Antineuralgic; Antipruritic; Antiseptic; Antispasmodic $ED_{50}=0.075\text{ mg/ml}$; Cancer-Preventive; Carminative; CNS-Stimulant; Convulsant; Cosmetic; Counterirritant; Decongestant; Deliriant; Ecbolic; Emetic; Epileptogenic; Expectorant; Fungicide $ED_{50}=2.7\text{ mM}$; Herbicide $IC_{50}=3.3-180\text{ mM}$; Insect-Repellent; Insectifuge; Irritant; Nematicide $MLC=1\text{ mg/ml}$; Occulorirritant; P450-2B1-Inhibitor $IC_{50}=7.89\text{ uM}$; Pesticide; Respirainhibitor; Respirastimulant; Rubefacient; Stimulant; Transdermal; Verrucolytic; Vibriocide 500 ug/ml

CAPROALDEHYDE Flower:

No activity reported.

CAPRYLALDEHYDE Plant:

No activity reported.

CARYOPHYLLENE Flower:

Aldose-Reductase-Inhibitor; Allergenic; Analgesic; Antiacne; Antiasthmatic; Antibacterial; Anticariogenic $MIC=>1,600\text{ ug/ml}$; Antidermatitic; Antiedemic; Antifeedant 500 ppm; Antiinflammatory $IC_{50}=100\text{ uM}$; Antileishmanic; Antionychyotic; Antiproliferant; Antispasmodic; Antistaphylococcic; Antistreptococcic; Antitumor; Antiulcer; Candidicide; FLavor $FEMA\ 20-200$; Fungicide; Gastroprotective; Insectifuge; Irritant; Larvicide; Mosquitocide; Perfumery; Pesticide; Sedative; Termitifuge

CARYOPHYLLENE-OXIDE Flower:

Antiedemic; Antifeedant; Antiinflammatory; Antitumor; Calcium-Antagonist $ED_{50}=32\text{ uM gpg}$; Fungicide; Insecticide; Pesticide

CEDRENE Plant:

Cancer-Preventive

CITRONELLOL Flower:

Allergenic; Antibacterial; Antiseptic; Antistaphylococcic; Antistreptococcic; Candidicide; FLavor $FEMA\ 1-50$; Fungicide; Herbicide $IC_{50}=160\text{ uM}$; Irritant;

Nematicide $MLC=100\text{ ug/ml}$; Perfumery; Pesticide; Sedative; Trichomonicide
 $LD100=300\text{ ug/ml}$

COUMARIC-ACID Plant:

No activity reported.

COUMARIN Plant 1,000 - 1,500 ppm

Aldose-Reductase-Inhibitor $10\text{ ug/ml cow (weak activity, 11\% inhibition)}$; Allelochemic
 $IC100=2\text{ mM}$; Analgesic; Anesthetic; Antiaggregant; Antiandrogenic; Antibrucellosic;
Anticancer (Kidney) $400-7,000\text{ mg/day}$; Anticancer (Prostate); Antidiuretic;
Antiedemic; Antiesherichic; Antiinflammatory; Antilymphedemic; Antimelanomic 50 mg/day ;
Antimetastatic 50 mg/man/day ; Antimitotic; Antimononucleotic;
Antimutagenic; Antimycoplasmotic; Antipsittacotic; Antipsoriac; Antitoxoplasmotic;
Antitumor 50 mg/day ; Antitumor (GI); Antitumor (Kidney) $400-7,000\text{ mg/day}$;
Antitumor (Prostate); Bacteristat; Bruchiphobe; Cancer-Preventive $5-25\text{ ug/ml}$;
Carcinogenic 200 mg/kg orl mus ; Cardiodepressant; Cardiotonic; Chemopreventive;
DME-Inhibitor $IC50=57.5\text{ uM}$; Emetic; Estrogenic; Fungicide; Hemorrhagic;
Hepatotoxic $0.8-1.71\text{ mM/kg orl rat } 100\text{ mg/kg dog } 2,500\text{ ppm diet}$; Hypnotic;
Hypoglycemic $250-1,000\text{ mg/kg orl}$; Immunostimulant; Juvabional; Larvistat;
Lymphocytogenic 100 mg/day ; Lymphokinetic; Narcotic; Ovicide; Pesticide;
Phagocytotic; Piscicide; Respirodepressant; Rodenticide; Sedative

CUMINALDEHYDE Flower:

Antibacterial; FLavor $FEMA <1$; Fungicide; Irritant; Larvicide; Perfumery; Pesticide;
Sedative; Tyrosinase-Inhibitor $ID50=0.05\text{ mM}$; Ulcerogenic

CURCUMENE Plant:

No activity reported.

DELTA-3-CARENE Flower:

Allergenic?; Antibacterial; Antiinflammatory *ipr*; Dermatitigenic; FLavor $FEMA$;
Insectifuge; Irritant; Pesticide

DELTA-CADINENE Flower:

Aldose-Reductase-Inhibitor; Antiacne; Antibacterial $MIC800\text{ ug/ml}$; Anticariogenic;
Antistreptococcic; Cytochrome-P450-Inducer; P450-Inducer; Pesticide; Testosterone-
Inducer

DIHYDROCOUMARIN Flower:

Cancer-Preventive; FLavor $FEMA 5-80$

FARNESENE Flower:

Pesticide; Pheromone

GAMMA-CADINENE Flower:

No activity reported.

GERANIAL Flower:

Antibacterial; AntiEBV $IC50=16\text{ uM}$; Antiviral; Pesticide

GERANIOL Flower:

Allergenic; Anthelmintic; Antibacterial $MBC=800\text{ ug/ml } MIC=400\text{ ug/ml } MIC=64$

ug/ml; Anticancer (Pancreas) *IC50*=265 *uM*; Anticariogenic *MIC*=400 *ug/ml*;
Antimelanomic *IC50*=150 *uM/l*; Antisalmonella *MIC*=400 *ug/ml*; Antiseptic 400-800
ug/ml 7 x phenol *MIC*=64 *ug/ml*; Antispasmodic; Antitubercular; Antitumor; Antitumor
(Pancreas) *IC50*=265 *uM*; Ascaricide; Cancer-Preventive; Candidicide; CNS-Stimulant;
Embryotoxic; Emetic 3 x *ipecac*; Expectorant; FLavor *FEMA* 1-10; Fungicide *IC93*=2
mM; Herbicide *IC100*-2,000 *uM*; Insectifuge 50 *ppm*; Insectiphile; Mycobactericide
MIC=64 *ug/ml*; Nematicide *IC86*=100 *ug/ml* *MLC*=1,000 *ug/ml*; Perfumery; Pesticide;
Sedative; Trichomonicide *LD100*=300 *ug/ml*

GERANYL-BUTYRATE Flower:

FLavor *FEMA* 1-10; Perfumery; Sedative

GERANYL-CAPROATE Flower:

FLavor *FEMA* 1-3; Perfumery

GERANYL-ISOBUTYRATE Flower:

No activity reported.

GERANYL-VALERATE Flower:

No activity reported.

HERNIARIN Plant 20 - 250 ppm

Aldose-Reductase-Inhibitor 10 *ug/ml* cow (*weak activity*); Allergenic; Antiallergic;
Antibacterial 100 *ppm*; Antispasmodic; Antistaphylococcic; Candidicide; Cholagogue;
Fungicide; Hepatoprotective; Pesticide; Photoactive

ISOBUTYRIC-ACID Flower:

Irritant; Transdermal

ISOVALERALDEHYDE Flower:

FLavor *FEMA* 0.5-5

LAVANDULOL Flower:

No activity reported.

LAVANDULYL-ACETATE Flower:

No activity reported.

LIMONENE Flower:

Acaricide *LC100*=8 *uM*; AChE-Inhibitor; Allelochemic; Allergenic 1/20th *carene*;
Antiacetylcholinesterase *IC22-26*=1.2 *mM*; Antiadenomic; Antialzheimeran?;
Antiasthmatic; Antibacterial; Anticancer; Antiesophagitic; Antifeedant; Antiflu;
Antiinflammatory; Antilithic; Antilymphomic; Antimetastatic (Stomach);
Antimutagenic; Antiobesity; Antiseptic; Antispasmodic *ED50*=0.197 *mg/ml*; Antitumor;
Antitumor (Breast); Antitumor (Colon); Antitumor (Pancreas); Antitumor (Prostate);
Antitumor (Stomach); Antiviral; Apoptotic; Bronchoprotectant; Cancer-Preventive;
Candidistat; Chemopreventive; Cholesterolytic; Detoxicant; Enterocontractant;
Expectorant; FLavor; Fungiphilic; Fungistat; GST-Inducer; Herbicide *IC50*=45 *uM*;
Histaminic; Immunomodulator; Insecticide 0.37 *uM/fly*; Insectifuge; Interleukin-6-
Inhibitor; Irritant; Lipolytic; Myorelaxant 50 *mg/kg*; Nematicide *IC*=100 *ug/ml*; NO-
Genic; Ornithine-Decarboxylase-Inhibitor ~750 *mg/kg* (*diet*); Ozone-Scavenger; P450-
Inducer; Peristaltic; Pesticide; Photosensitizer; Sedative *ED*=1-32 *mg/kg*; Transdermal

LINALOL *Plant*:

No activity reported.

LINALOL-OXIDE *Flower*:

No activity reported.

LINALYL-ACETATE *Flower* 240 - 7,200 ppm

Anesthetic 0.01-1 ug/ml; Antioxidant 400 ppm; Antispasmodic ED50=0.21 mg/ml; FLavor FEMA 2-15; Motor-Depressant; Perfumery; Sedative

LINALYL-BUTYRATE *Flower*:

No activity reported.

LINALYL-CAPROATE *Flower*:

FLavor FEMA 3-15; Perfumery

LINALYL-ISOBUTYRATE *Flower*:

No activity reported.

LINALYL-VALERATE *Flower*:

No activity reported.

LUTEOLIN *Plant*:

Aldose-Reductase-Inhibitor EC=3 ppm IC50=0.45 uM rat; Antiallergic; Antiangiogenic IC60-75=10 uM; Antiatherogenic; Antibacterial MIC=500 ug/ml; Anticarcinogenic; Anticarcinomic; Anticataract EC=3 ppm; Anticomplementary; Antidermatic; Antiestrogenic; Antifeedant IC52=<1,000 ppm diet; Antiherpetic 11-23 ug/ml; Antihistaminic <10-15 uM; AntiHIV; Antiinflammatory =indomethacin; Antileukemic 20-50 uM; Antilymphomic; Antimelanomic; Antimutagenic ID50=0.44 ug/ml ID50=2-5 nM; Antinociceptive; Antioxidant IC50=10 uM; Antipolio; Antiproliferant; Antispasmodic; Antitumor 1-50 uM; Antitumor (brain); Antitumor (Colon); Antitumor (Kidney); Antitumor (Lung); Antitumor (Ovary); Antitumor (Pancreas); Antitumor (Skin) 20 uM; Antitumor (Stomach); Antitumor (Thyroid) 12-50 uM; Antitussive; Antiviral 11-23 ug/ml; Aphidifuge; Apoptotic 12-50 uM; Aromatase-Inhibitor IC35=1 uM/l; Beta-Glucuronidase-Inhibitor IC50=~40 uM; Calcium-Antagonist IC50=1.2 uM rbt; Cancer-Preventive; Chemopreventive; Choleric; Cytotoxic 1-50 uM; Deiodinase-Inhibitor; Differentiator IC>40=40 uM; Diuretic; Estrogenic 58% genistein; Hepatoprotective; Hyaluronidase-Inhibitor IC50+=100-250 uM; Hypocholesterolemic; ICAM-1-Inhibitor; IKK-Inhibitor; iNOS-Inhibitor; Iodothyronine-Deiodinase-Inhibitor; Lipoxigenase-Inhibitor; MAPK-Inhibitor; Metalloproteinase-Inhibitor; MMP-9-Inhibitor 20 uM; Myorelaxant; NEP-Inhibitor IC50=>42 uM; NF-kB-Inhibitor; NO-Inhibitor; Pesticide; Proliferant; Prostaglandin-Synthetase-Inhibitor; Protein-Kinase-C-Inhibitor IC70=50 uM; PTK-Inhibitor 10-100 uM; Succinoxidase-Inhibitor; TNF-alpha-Inhibitor IC50=14.44 uM; Topoisomerase-I-Inhibitor; Vasodilator; VEGF-Inhibitor IC50=2-7 uM; Xanthine-Oxidase-Inhibitor IC50=0.11 ug/ml

MYRCENE *Flower*:

ACE-Inhibitor 100 ug/ml; Aldose-Reductase-Inhibitor; Allergenic; Analgesic; Antibacterial; Anticonvulsant; Antimutagenic; Antinitrosaminic; Antinociceptive 10-20 mg/kg ipr mus 20-40 mg/kg scu mus; Antioxidant; Antispasmodic; Chemopreventive; FLavor FEMA 0.5-9; Fungicide; Hypothermic; Insectifuge; Irritant; Myorelaxant 100-200 mg/kg; P450-2B1-Inhibitor IC50=0.14 uM; Perfumery; Pesticide

NERAL Flower:

Antibacterial; Antispasmodic; Pesticide; Termiticide *LD100=5 mg/g*

OCIMENE Flower:

Insecticide; Perfumery

PLANTEOSE Seed:

No activity reported.

ROSMARINIC-ACID Plant 12,000 ppm;

ABeta-Inhibitor; Adenylate-Cyclase-Inhibitor; Aldose-Reductase-Inhibitor; Antiaggregant; Antiallergic; Antialzheimeran; Antianaphylactic *1-100 mg/kg orl ID50=1 mg/kg ivn rat ID50=10 mg/kg ims rat*; Antiatherosclerotic *IC50=0.74 uM*; Antibacterial; Anticoagulant; Anticomplementary *1/2 aspirin 20 mg/kg ivn*; Antidepressant; Antiedemic *0.316-3.16 mg/kg ims*; Antigonadotropic; Antihemolytic *IC70=5-10 um/l*; Antihepatotoxic; Antiherpetic *50 ug/ml EC50=20 ug/ml*; AntiHIV *EC50=40 ug/ml*; Antihyperthyroid; Antiinflammatory *IC~58=1,000 uM*; Antiintegrase *10 ug/ml*; Antileukotriene; Antilipoperoxidant; Antimutagenic; Antinephritic; Antioxidant *10 uM EC50=2.7 ug/ml*; Antioxidant (LDL) *IC50=0.74 uM*; Antiplateau; Antiproliferant; Antiprostaglandin *20 mg/kg ivn*; Antiproteolytic *IC50=0.9 mol l*; Antipulmonotic; Antiradicular; Antishock; Antithyretropic; Antithyroid; Antiuremic; Antiviral *EC50=40 ug/ml*; Anxiolytic; Apoptotic; Calcium-Antagonist *IC50=1.2 uM rbt*; Cancer-Preventive; COX-1-Inhibitor *IC58=1,000 uM*; COX-2-Inhibitor *IC>58=1,000 uM*; Cytotoxic *TC50=100-150 ug/ml*; Deiodinase-Inhibitor; Immunomodulator; Immunostimulant; Lipoxygenase-Inhibitor; Neuroprotective; Pesticide; Radioprotective

SABINENE Flower:

Antibacterial; Antihelicobacter; Antiseptic; Antiulcer; Perfumery

UMBELLIFERONE Plant:

Aldose-Reductase-Inhibitor *IC50=4.8 ug/ml cow*; Allelochemic *IC94=2 mM*; Antibacterial; Antiedemic; Antihistaminic; Antiinflammatory; Antimitotic *5-25 ug/ml*; Antimutagenic; Antiprostaglandin; Antiseptic; Antispasmodic; Antistaphylococcic; Cancer-Preventive; Candidicide; Choloretic; Fungicide; Lipoxygenase-Inhibitor; Perfumery; Pesticide; Photoactive; Sunscreen; Xanthine-Oxidase-Inhibitor

UMBELLIFERONE-METHYL-ETHER Plant:

No activity reported.

URSOLIC-ACID Leaf 7,000 ppm;

Analgesic; Antialzheimeran; Antiarrhythmic; Antiarthritic; Antibacterial; Anticancer; Anticancer (Colon); Anticarcinomic; Anticariogenic; Anticholestatic *28-100 mg/kg orl*; Anticomplement *IC100 0.1 mM/l gpg IC80-90 0.05 mM/l gpg*; Antidiabetic; AntiEBV; Antiedemic; Antiescherichic; Antifibrosarcomic *IC80=10 uM*; Antihepatotoxic *5-20 mg/kg ipr*; Antihistaminic; AntiHIV *6.7 uM EC50=2.0 ug/ml IC50=6.5 ug/ml IC85=18 ug/ml*; Antihyperlipidemic; Antiinflammatory *1/3 indomethacin IC24=500 mg/kg*; Antileishmanic *ED50=20 uM*; Antileukemic *IC50=2.5-17.8 ug/ml*; Antilymphomic; Antimalarial *IC50=28-37 ug/ml*; Antimetastatic *IC80=10 uM*; Antimutagenic *IC57-80=80 mg/kg*; Antinephritic *IC50=6-7.5 uM*; Antiobesity?; Antioxidant *IC50=10 uM*; Antiperoxidant *IC35=200 ug/ml*; Antiplasmodial *IC50=28-37 ug/ml*; Antiproliferative *IC50=15-20 uM*; Antistaphylococcic; AntiTGF-beta *IC50=6-7.5 uM*; Antithromboxane

IC50=50 uM; Antitrypanosomic; Antitumor; Antitumor (brain); Antitumor (Breast) *0.5% diet IC50=15-20 uM*; Antitumor (Cervix); Antitumor (Colon); Antitumor (Lung); Antitumor (Ovary); Antitumor (Stomach); Antitumor-Promoter; Antiulcer; Antiviral *IC85=18 ug/ml*; Aromatase-Inhibitor; Beta-Blocker; Beta-Glucuronidase-Inhibitor *~100 mg/kg*; Cancer-Preventive; Candidicide; Cardioprotective; Cardiotonic; Choloretic *5-20 mg/kg orl*; CNS-Depressant; COX-2-Inhibitor *IC50=130 uM*; Cyclooxygenase-Inhibitor; Cytotoxic *50 ppm 7.2 uM ED50=3.75 ug/ml*; Diuretic; Elastase-Inhibitor *IC50=~15 uM*; Hepatoprotective *1-100 ug/ml 10 mg/kg*; Hypoglycemic; Hypotensive; Immunomodulator; Leucocytogenic; Lipoygenase-Inhibitor *IC50=0.18 mM*; MMP-9-Inhibitor *IC80=10 uM*; Ornithine-Decarboxylase-Inhibitor; Pesticide; Piscicide; Potassium-Sparing *3 mg/rat*; Protease-Inhibitor *IC85=18 ug/ml*; Protisticide; Quinone-Reductase-Inducer *5 ug/ml*; Sodium-Sparing *3 mg/rat*; TOPO-2-Inhibitor; Trypanocide; Vasopressor

VALERALDEHYDE Flower:

No activity reported.

VALERIC-ACID Flower:

Antihysterical; Antiinsomniac *1.2-2.4*; Antispasmodic; FLavor *FEMA 1-8*; Hypotensive; Myorelaxant; Perfumery; Sedative; Tranquilizer