

List of All Chemicals

P Pycnanthemum pilosum (Lamiaceae)

Common name(s)

Pilose Mountain Mint

How used

Medicinal

*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.

| Chemical | Part <input type="button" value="All"/> | Low PPM | High PPM | StdDev | *Reference |
|-------------|--|------------|-------------|--------|--|
| 1,8-CINEOLE | Leaf | 10.0 | 35.0 | -0.53 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

Activities (67)

| | |
|---|--|
| (-)-Chronotropic 87 nl/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| (-)-Inotropic 87 nl/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Acaricide LC100=6 uM | |
| Allelopathic | |
| Allergenic | |
| Anesthetic | |
| Anthelmintic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiacetylcholinesterase IC50=41 ug/ml | |
| Antiallergic | J. Food Hyg. Soc. Jap. 33(6): 569. |
| Antibacterial 50 ppm | |
| Antibronchitic | |
| Anticariogenic | |
| Anticatarrh | Martindale's 29th |
| Anticholinesterase IC50=50-70 | |
| Antifatigue | |
| Antihalitosis | American Health, 12(4): 17, 1993. |
| Antiinflammatory | |
| Antilaryngitic | |
| Antinociceptive | |
| Antipharyngitic | |
| Antiplaque | |
| Antirheumatic | |
| Antirhinitic | |
| Antiseptic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antisinusitic | |
| Antispasmodic | |
| Antistaphylococcic 50 ppm | |
| Antitussive | |
| Antiulcer | |
| CNS-Stimulant | |
| Candidicide | |
| Carcinogenic | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Choleretic | |
| Convulsant | |
| Counterirritant | Martindale's 29th |
| Cytochrome-P450-Inducer | |
| Decongestant | |
| Degranulant 0.3 ul/ml | |
| Dentifrice | Martindale's 29th |

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|----------------------------------|--|
| Edemagenic inj | |
| Expectorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| FLavor FEMA 1-200 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | |
| Gastroprotective | |
| Gram(+)-icide | |
| Gram(-)-icide | |
| Hepatotonic | |
| Herbicide IC50=78 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Hypotensive | |
| Inflammatory inj | |
| Insectifuge | |
| Irritant | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Myorelaxant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Neurotoxic | |
| P450-Inducer | |
| Pediculicide 2.3 x pyrethrin | |
| Perfume | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Pesticide | |
| Rubefacient | Martindale's 29th |
| Secretagogue | |
| Sedative | |
| Spasmogenic | |
| Surfactant | |
| Testosterone-Hydroxylase-Inducer | |
| Transdermal | |
| Trichomonicide LD100=1,000 ug/ml | |

| | | | | | |
|-------------|--------|------|------|-------|--|
| 1,8-CINEOLE | Flower | 10.0 | 35.0 | -0.45 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------|--------|------|------|-------|--|

Activities (67)

| | |
|--|--|
| (-)-Chronotropic 87 nI/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| (-)-Inotropic 87 nI/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Acaricide LC100=6 uM | |
| Allelopathic | |
| Allergenic | |
| Anesthetic | |
| Anthelmintic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiacetylcholinesterase IC50=41 ug/ml | |
| Antiallergic | J. Food Hyg. Soc. Jap. 33(6): 569. |
| Antibacterial 50 ppm | |
| Antibronchitic | |
| Anticariogenic | |
| Anticatarrh | Martindale's 29th |
| Anticholinesterase IC50=50-70 | |
| Antifatigue | |
| Antihalitosis | American Health, 12(4): 17, 1993. |
| Antiinflammatory | |
| Antilaryngitic | |
| Antinociceptive | |
| Antipharyngitic | |
| Antiplaque | |
| Antirheumatic | |
| Antirhinitic | |
| Antiseptic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antisinusitic | |
| Antispasmodic | |
| Antistaphylococcic 50 ppm | |

| | | | | | |
|----------------------------------|--------|-------------------|-------|-------|--|
| Antitussive | | | | | |
| Antiulcer | | | | | |
| CNS-Stimulant | | | | | |
| Candidicide | | | | | |
| Carcinogenic | | | | | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Choleretic | | | | | |
| Convulsant | | | | | |
| Counterirritant | | Martindale's 29th | | | |
| Cytochrome-P450-Inducer | | | | | |
| Decongestant | | | | | |
| Degranulant 0.3 ul/ml | | | | | |
| Dentifrice | | Martindale's 29th | | | |
| Edemagenic inj | | | | | |
| Expectorant | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| FLavor FEMA 1-200 | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | | | | | |
| Gastroprotective | | | | | |
| Gram(+)-icide | | | | | |
| Gram(-)-icide | | | | | |
| Hepatotoxic | | | | | |
| Herbicide IC50=78 uM | | | | | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Hypotensive | | | | | |
| Inflammatory inj | | | | | |
| Insectifuge | | | | | |
| Irritant | | | | | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Myorelaxant | | | | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide | | | | | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Neurotoxic | | | | | |
| P450-Inducer | | | | | |
| Pediculicide 2.3 x pyrethrin | | | | | |
| Perfume | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | | | | | |
| Rubefacient | | Martindale's 29th | | | |
| Secretagogue | | | | | |
| Sedative | | | | | |
| Spasmogenic | | | | | |
| Surfactant | | | | | |
| Testosterone-Hydroxylase-Inducer | | | | | |
| Transdermal | | | | | |
| Trichomonicide LD100=1,000 ug/ml | | | | | |
| 1-OCTEN-3-OL | Leaf | 10.0 | 35.0 | -0.26 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 1-OCTEN-3-OL | Flower | 10.0 | 35.0 | 1.05 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| 3-OCTANOL | Flower | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Activities (2) | | | | | |
| FLavor FEMA | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Perfumery | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| 3-OCTANOL | Leaf | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Activities (2) | | | | | |
| FLavor FEMA | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Perfumery | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| ALPHA-PINENE | Leaf | 38.0 | 140.0 | -0.22 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

Activities (28)

| | |
|-------------------------------------|--|
| Allelochemic | |
| Allergenic | |
| Antiacne | |
| Antibacterial | |
| Antifeedant | |
| Antiflu | Economic & Medicinal Plant Research, 5: 195. |
| Antiinflammatory 500 mg/kg | |
| Antipneumonic | |
| Antiseptic | |
| Antispasmodic | |
| Antistaphylococcic | |
| Antiviral | Economic & Medicinal Plant Research, 5: 195. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Coleoptophile | |
| Expectorant | Michael Castleman 1991. The Healing Herbs. Rodale Press, Emmaus, PA 436 pp. |
| FLavor FEMA 15-150 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Herbicide IC50=30 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insecticide 0.82 uM/fly | |
| Insectifuge 50 ppm | |
| Insectiphile | J. Stored. Prod. Res., 22:141, 1986. |
| Irritant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| P450-2B1-Inhibitor IC50=0.087 uM | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Sedative | Lawrence Review of Natural Products, Jun-90. |
| Spasmogenic | |
| Tranquilizer | Lawrence Review of Natural Products, Jun-90. |
| Transdermal | |

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|--------------|--------|------|-------|------|--|
| ALPHA-PINENE | Flower | 38.0 | 140.0 | 0.32 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|--------------|--------|------|-------|------|--|

Activities (28)

| | |
|-------------------------------------|--|
| Allelochemic | |
| Allergenic | |
| Antiacne | |
| Antibacterial | |
| Antifeedant | |
| Antiflu | Economic & Medicinal Plant Research, 5: 195. |
| Antiinflammatory 500 mg/kg | |
| Antipneumonic | |
| Antiseptic | |
| Antispasmodic | |
| Antistaphylococcic | |
| Antiviral | Economic & Medicinal Plant Research, 5: 195. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Coleoptophile | |
| Expectorant | Michael Castleman 1991. The Healing Herbs. Rodale Press, Emmaus, PA 436 pp. |
| FLavor FEMA 15-150 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Herbicide IC50=30 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insecticide 0.82 uM/fly | |
| Insectifuge 50 ppm | |
| Insectiphile | J. Stored. Prod. Res., 22:141, 1986. |
| Irritant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| P450-2B1-Inhibitor IC50=0.087 uM | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Sedative | Lawrence Review of Natural Products, Jun-90. |
| Spasmogenic | |
| Tranquilizer | Lawrence Review of Natural Products, Jun-90. |
| Transdermal | |

| | | | | | |
|-----------------|------|------|-------|-------|--|
| ALPHA-TERPINEOL | Leaf | 28.0 | 105.0 | -0.41 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-----------------|------|------|-------|-------|--|

Activities (23)

| | |
|---|---|
| ACE-Inhibitor 100 ug/ml (weak activity) | |
| Aldehyde-Reductase-Inhibitor 100 ug/ml | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101. |
| Allelopathic | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |
| Antiacne | |
| Antibacterial MIC=800-1,600 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Anticancer | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Anticariogenic MIC=800-1,600 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Antiinflammatory | |
| Antiproliferant | |
| Antiseptic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Cicatrizant ED50=240 ug/g mus | |
| FLavor FEMA 5-40 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Insecticide 1.29 uM/fly | |
| Interleukin-6-Inhibitor | |
| Mosquitofuge > Deet | |
| Motor-Depressant | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Sedative | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Termiticide IC100=5 mg/g | |
| Transdermal | |
| Vulnerary ED50=240 ug/g mus | |

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|-----------------|--------|------|-------|-------|--|
| ALPHA-TERPINEOL | Flower | 28.0 | 105.0 | -0.24 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-----------------|--------|------|-------|-------|--|

| Activities (23) | | | | | |
|---|------|----|----|--|---|
| ACE-Inhibitor 100 ug/ml (weak activity) | | | | | |
| Aldehyde-Reductase-Inhibitor 100 ug/ml | | | | | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101. |
| Allelopathic | | | | | Wright, C.W. (Ed) 2002. Medicinal & Aromatic Plants - Industrial Profiles. Artemisia. 344pp. Maffei, M. (Ed) 2002. Vetiveria. The Genus Vetiveria. Taylor & Francis. NY, NY. 191pp. Southwell, J., Lowe, R. (Eds) 1999. Tea Tree. The Genus Melaleuca. Harwood Acad. Pub. Amsterdam, Netherlands. |
| Antiacne | | | | | |
| Antibacterial MIC=800-1,600 ug/ml | | | | | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Anticancer | | | | | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Anticariogenic MIC=800-1,600 ug/ml | | | | | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Antiinflammatory | | | | | |
| Antiproliferant | | | | | |
| Antiseptic | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Cicatrizant ED50=240 ug/g mus | | | | | |
| FLavor FEMA 5-40 | | | | | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Insecticide 1.29 uM/fly | | | | | |
| Interleukin-6-Inhibitor | | | | | |
| Mosquitofuge > Deet | | | | | |
| Motor-Depressant | | | | | Buchbauer et al, e.g. Buchbauer et al, 1993. Therapeutic properties of essential oils and fragrances. Chap. 12 in Teranishi, R., Buttery, R.G and Sugisawa, H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=1 mg/ml | | | | | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | | | | | |
| Sedative | | | | | Buchbauer et al, e.g. Buchbauer et al, 1993. Therapeutic properties of essential oils and fragrances. Chap. 12 in Teranishi, R., Buttery, R.G and Sugisawa, H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Termiticide IC100=5 mg/g | | | | | |
| Transdermal | | | | | |
| Vulnerary ED50=240 ug/g mus | | | | | |
| ANISALDEHYDE | Leaf | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

| Activities (7) | | | | | |
|--------------------------------------|--------|----|----|--|--|
| Antimutagenic | | | | | Economic & Medicinal Plant Research, 6: 235. |
| Fungicide | | | | | |
| Insecticide | | | | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Pesticide | | | | | |
| Tyrosinase-Inhibitor ID50=320 uM | | | | | |
| Tyrosinase-Inhibitor ID50=0.32 mM | | | | | |
| Tyrosinase-Inhibitor ID50=380-970 uM | | | | | |
| ANISALDEHYDE | Flower | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

| Activities (7) | | | | | |
|--------------------------------------|------|------|------|-------|--|
| Antimutagenic | | | | | Economic & Medicinal Plant Research, 6: 235. |
| Fungicide | | | | | |
| Insecticide | | | | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Pesticide | | | | | |
| Tyrosinase-Inhibitor ID50=320 uM | | | | | |
| Tyrosinase-Inhibitor ID50=0.32 mM | | | | | |
| Tyrosinase-Inhibitor ID50=380-970 uM | | | | | |
| BETA-BOURBONENE | Leaf | 10.0 | 35.0 | -0.35 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

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|-----------------|--------|------|------|-------|--|
| BETA-BOURBONENE | Flower | 10.0 | 35.0 | -0.11 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-----------------|--------|------|------|-------|--|

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|--------------|------|------|-------|------|--|
| BETA-ELEMENE | Leaf | 28.0 | 105.0 | 0.13 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|--------------|------|------|-------|------|--|

Activities (5)

Anticancer (Cervix) Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987.
 Antigliomic
 Antiproliferant
 Antitumor (Cervix) Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987.
 Apoptotic

| | | | | | |
|--------------|--------|------|-------|------|--|
| BETA-ELEMENE | Flower | 28.0 | 105.0 | -1.0 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|--------------|--------|------|-------|------|--|

Activities (5)

Anticancer (Cervix) Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987.
 Antigliomic
 Antiproliferant
 Antitumor (Cervix) Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987.
 Apoptotic

| | | | | | |
|-------------|------|------|-------|-------|--|
| BETA-PINENE | Leaf | 38.0 | 140.0 | -0.22 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------|------|------|-------|-------|--|

Activities (13)

Allergenic
 Antiinflammatory
 Antiseptic Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
 Antispasmodic
 Candidicide
 FLavor FEMA 15-600 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
 Herbicide Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp.
 Insectifuge Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
 Irritant Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.
 Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
 Pesticide
 Spasmogenic Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
 Transdermal

| | | | | | |
|-------------|--------|------|-------|------|--|
| BETA-PINENE | Flower | 38.0 | 140.0 | 0.01 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------|--------|------|-------|------|--|

Activities (13)

Allergenic
 Antiinflammatory
 Antiseptic Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
 Antispasmodic
 Candidicide
 FLavor FEMA 15-600 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
 Herbicide Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp.
 Insectifuge Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
 Irritant Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.
 Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
 Pesticide
 Spasmogenic Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
 Transdermal

| | | | | | |
|-------------------|------|------|------|-------|--|
| BICYCLOGERMACRENE | Leaf | 19.0 | 70.0 | -0.27 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------------|------|------|------|-------|--|

| | | | | | |
|-------------------|--------|------|------|--|--|
| BICYCLOGERMACRENE | Flower | 19.0 | 70.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------------|--------|------|------|--|--|

CARYOPHYLLENE Leaf 1.0 350.0 -0.47 Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities (31)

| | |
|------------------------------------|--|
| Aldose-Reductase-Inhibitor | |
| Allergenic | |
| Analgesic | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Antiacne | |
| Antiasthmatic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Antibacterial | |
| Anticariogenic MIC=>1,600 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Antidermatitic | |
| Antiedemic | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990. |
| Antifeedant 500 ppm | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Antiinflammatory IC50=100 uM | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990. |
| Antileishmanic | |
| Antionychyotic | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Antiproliferant | |
| Antispasmodic | |
| Antistaphylococcic | |
| Antistreptococcic | |
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (Eugenia caryophyllata) As Potential Anticarcinogenic Agents. Journal of Natural Products 55(7): 999-1003, 1992. |
| Antiulcer | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Candidicide | |
| FLavor FEMA 20-200 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | |
| Gastroprotective | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Insectifuge | |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Larvicide | |
| Mosquitocide | |
| Perfumery | Merck 11th Edition |
| Pesticide | |
| Sedative | |
| Termitifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |

CARYOPHYLLENE Flower 1.0 350.0 -0.67 Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities (31)

Aldose-Reductase-Inhibitor

Allergenic

Analgesic Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.

Antiacne

Antiasthmatic Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Antibacterial

Anticariogenic MIC=>1,600 ug/ml Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105.

Antidermatitic

Antidemic Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990.

Antifeedant 500 ppm Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp.

Antiinflammatory IC50=100 uM Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990.

Antileishmanic

Antionychotic Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.

Antiproliferant

Antispasmodic

Antistaphylococcic

Antistreptococcic

Antitumor Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (Eugenia caryophyllata) As Potential Anticarcinogenic Agents. Journal of Natural Products 55(7): 999-1003, 1992.

Antiulcer Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.

Candidicide

Flavor FEMA 20-200 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Fungicide

Gastroprotective Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.

Insectifuge

Irritant Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Larvicide

Mosquitocide

Perfumery Merck 11th Edition

Pesticide

Sedative

Termitifuge Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

| | | | | | |
|----|------|---------|---------|------|--|
| EO | Leaf | 39000.0 | 58000.0 | 4.09 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|----|------|---------|---------|------|--|

| | | | | | |
|----|--------|---------|---------|------|--|
| EO | Flower | 39000.0 | 58000.0 | 1.51 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|----|--------|---------|---------|------|--|

| | | | | | |
|--------------|------|------|-------|-------|--|
| GERMACRENE-D | Leaf | 28.0 | 245.0 | -0.33 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|--------------|------|------|-------|-------|--|

Activities (2)

Pesticide

Pheromone

| | | | | | |
|--------------|--------|------|-------|------|--|
| GERMACRENE-D | Flower | 28.0 | 245.0 | 1.14 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|--------------|--------|------|-------|------|--|

Activities (2)

Pesticide

Pheromone

| | | | | | |
|-------------|------|-------|--------|------|--|
| ISOMENTHONE | Leaf | 494.0 | 2940.0 | 0.29 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------|------|-------|--------|------|--|

Activities (3)

Antiacetylcholinesterase IC50=1.6 mM

Antioxidant

Antiradicular

| | | | | | |
|-------------|--------|-------|--------|--|--|
| ISOMENTHONE | Flower | 494.0 | 2940.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------|--------|-------|--------|--|--|

Activities (3)

Antiacetylcholinesterase IC50=1.6 mM

Antioxidant

Antiradicular

| | | | | | |
|-----------------|--------|------|--------|------|--|
| ISOPIPERITENONE | Leaf | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| ISOPIPERITENONE | Flower | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| LIMONENE | Flower | 66.0 | 1225.0 | 2.11 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

Activities (60)

| | |
|---|--|
| AChE-Inhibitor | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8. |
| Acaricide LC100=8 uM | |
| Allelochemic | |
| Allergenic 1/20th carene | |
| Antiacetylcholinesterase IC22-26=1.2 mM | |
| Antiadenomic | |
| Antialzheimeran? | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8. |
| Antiasthmatic | |
| Antibacterial | Revista Itiliana Eppos, 12: 5, 1994. |
| Anticancer | |
| Antiesophagitic | |
| Antifeedant | |
| Antiflu | Economic & Medicinal Plant Research, 5: 195. |
| Antiinflammatory | |
| Antilithic | |
| Antilymphomic | |
| Antimetastatic (Stomach) | |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antiobesity | |
| Antiseptic | |
| Antispasmodic ED50=0.197 mg/ml | Fitoterapia No.59-1984. |
| Antitumor | |
| Antitumor (Breast) | |
| Antitumor (Colon) | |
| Antitumor (Pancreas) | |
| Antitumor (Prostate) | |
| Antitumor (Stomach) | |
| Antiviral | |
| Apoptotic | |
| Bronchoprotectant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidistat | |
| Chemopreventive | |
| Cholesterolytic | |
| Detoxicant | |
| Enterocontractant | J. Aromatherapy 4: 22. |
| Expectorant | |
| FLavor | |
| Fungiphilic | J. Agric. Food Chem. 43: 2283. |
| Fungistat | |
| GST-Inducer | |
| Herbicide IC50=45 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Histaminic | |
| Immunomodulator | |
| Insecticide 0.37 uM/fly | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Interleukin-6-Inhibitor | |
| Irritant | |
| Lipolytic | |
| Myorelaxant 50 mg/kg | |
| NO-Genic | |
| Nematicide IC=100 ug/ml | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Ornithine-Decarboxylase-Inhibitor ~750 mg/kg (diet) | |
| Ozone-Scavenger | |
| P450-Inducer | |
| Peristaltic | |
| Pesticide | |
| Photosensitizer | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Sedative ED=1-32 mg/kg | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Transdermal | |

| | | | | | |
|----------|------|------|--------|------|--|
| LIMONENE | Leaf | 66.0 | 1225.0 | 0.84 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|----------|------|------|--------|------|--|

Activities (60)

| | |
|---|--|
| AChE-Inhibitor | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8. |
| Acaricide LC100=8 uM | |
| Allelochemic | |
| Allergenic 1/20th carene | |
| Antiacetylcholinesterase IC22-26=1.2 mM | |
| Antiadrenomic | |
| Antialzheimeran? | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8. |
| Antiasthmatic | |
| Antibacterial | Revista Itiliana Eppos, 12: 5, 1994. |
| Anticancer | |
| Antiesophagitic | |
| Antifeedant | |
| Antiflu | Economic & Medicinal Plant Research, 5: 195. |
| Antiinflammatory | |
| Antilithic | |
| Antilymphomic | |
| Antimetastatic (Stomach) | |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antiobesity | |
| Antiseptic | |
| Antispasmodic ED50=0.197 mg/ml | Fitoterapia No.59-1984. |
| Antitumor | |
| Antitumor (Breast) | |
| Antitumor (Colon) | |
| Antitumor (Pancreas) | |
| Antitumor (Prostate) | |
| Antitumor (Stomach) | |
| Antiviral | |
| Apoptotic | |
| Bronchoprotectant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidistat | |
| Chemopreventive | |
| Cholesterolytic | |
| Detoxicant | |
| Enterocontractant | J. Aromatherapy 4: 22. |
| Expectorant | |
| FLavor | |
| Fungiphilic | J. Agric. Food Chem. 43: 2283. |
| Fungistat | |
| GST-Inducer | |
| Herbicide IC50=45 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Histaminic | |
| Immunomodulator | |
| Insecticide 0.37 uM/fly | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Interleukin-6-Inhibitor | |
| Irritant | |
| Lipolytic | |
| Myorelaxant 50 mg/kg | |
| NO-Genic | |
| Nematicide IC=100 ug/ml | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Ornithine-Decarboxylase-Inhibitor ~750 mg/kg (diet) | |
| Ozone-Scavenger | |
| P450-Inducer | |
| Peristaltic | |
| Pesticide | |
| Photosensitizer | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Sedative ED=1-32 mg/kg | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Transdermal | |

| | | | | | |
|---------|--------|-------|-------|-------|--|
| LINALOL | Leaf | 1.0 | 210.0 | -0.32 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| LINALOL | Flower | 1.0 | 210.0 | -0.35 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| MENTHOL | Leaf | 142.0 | 700.0 | -0.53 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

Activities (63)

| | |
|---|--|
| Allergenic | Martindale's 29th |
| Analgesic | Martindale's 28th |
| Anesthetic 2,000 ppm | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994. |
| Antiacetylcholinesterase IC50=2.0 mM | |
| Antiaggregant IC50=750 | |
| Antiallergic | <i>J. Food Hyg. Soc. Jap.</i> 33(6): 569. |
| Antiasthmatic | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livinston, Edinburgh. |
| Antibacillus MIC=1.25 mg/ml | |
| Antibacterial MIC=0.625-2.5 | |
| Antibronchitic | Martindale's 28th |
| Antidandruff | A.L.L. Hunting. <i>Encyclopedia of Shampoo Ingredients</i> . Micelle Press, Cranford NJ. 467 pp. |
| Antiescherichic MIC=1.25 mg/ml | |
| Antihalitosis | <i>American Health</i> , 12(4): 17, 1993. |
| Antihistaminic | <i>J. Food Hyg. Soc. Jap.</i> 33(6): 569. |
| Antiinflammatory | Martindale's 28th |
| Antilisteria MIC=0.625 mg/ml | |
| Antineuralgic | |
| Antiodontalgic | Martindale's 28th |
| Antipruritic | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994. |
| Antipyretic | |
| Antirheumatic | Martindale's 28th |
| Antisalmonella MIC=0.625 mg/ml | |
| Antiseptic 4 x phenol | Wagner & Wolff, eds. 1977. <i>New Natural Products</i> (RS164. I56. 176) |
| Antisinusitic | Martindale's 28th |
| Antispasmodic ED50=0.01 mg/ml | <i>Fitoterapia</i> No.59-1984. |
| Antistaphylococcic MIC=0.625 mg/ml | |
| Antistreptococcic MIC=0.4 mg/ml | |
| Antitartar | |
| Antivaginitic | |
| Antivulvitic | |
| Bradycardic 65 mg/3 x day/woman | Martindale's 28th |
| Bronchomucolytic | <i>Advance in Chinese Medicinal Materials Research</i> . 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 200. |
| Bronchomucotropic | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994. |
| Bronchorrhic | <i>Advance in Chinese Medicinal Materials Research</i> . 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 200. |
| CNS-Depressant | |
| CNS-Stimulant | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Calcium-Antagonist | |
| Candidicide MIC=0.625 mg/ml | |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994. |
| Choleretic | |
| Ciliotoxic | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994. |
| Congestant | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994. |
| Convulsant | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. <i>Tips</i> 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. <i>Ann. Intern. Med.</i> 117(2):165-6; Huxtable, R. |
| Counterirritant | |
| Decongestant? 11 mg/man | Eccles, R., et al. 1989. The effects of oral administration of (-)-menthol on nasal resistance to airflow and nasal sensation of airflow in subjects suffering from nasal congestion associated with the common cold. <i>J. Pharm. Pharmacol.</i> 42: 652-654, 1990. |
| Dermatitigenic | |
| Diaphoretic | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |

| | |
|-----------------------------------|---|
| Enterorelaxant | J. Aromatherapy 4: 22. |
| Expectorant | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Gastroedative | Merck 11th Edition |
| Irritant | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Myorelaxant | Martindale's 29th |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Neurodepressant | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Neuropathogenic 40-100 mg/day/rat | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Nociceptive | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Perfumery | Merck 11th Edition |
| Pesticide | |
| Refrigerant | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Rubefacient | |
| Termiticide | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Transdermal | |
| Vibriocide | |

MENTHOL Flower 142.0 700.0 Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities (63)

| | |
|--------------------------------------|---|
| Allergenic | Martindale's 29th |
| Analgesic | Martindale's 28th |
| Anesthetic 2,000 ppm | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Antiacetylcholinesterase IC50=2.0 mM | |
| Antiaggregant IC50=750 | |
| Antiallergic | J. Food Hyg. Soc. Jap. 33(6): 569. |
| Antiasthmatic | Mills, Simon and Bone, Kerry. 2000. Phytotherapy. Churchill Livinston, Edinburgh. |
| Antibacillus MIC=1.25 mg/ml | |
| Antibacterial MIC=0.625-2.5 | |
| Antibronchitic | Martindale's 28th |
| Antidandruff | A.L.L. Hunting. Encyclopedia of Shampoo Ingredients. Micelle Press, Cranford NJ. 467 pp. |
| Antiescherichic MIC=1.25 mg/ml | |
| Antihalitotic | American Health, 12(4): 17, 1993. |
| Antihistaminic | J. Food Hyg. Soc. Jap. 33(6): 569. |
| Antiinflammatory | Martindale's 28th |
| Antilisteria MIC=0.625 mg/ml | |
| Antineuralgic | |
| Antiodontalgic | Martindale's 28th |
| Antipruritic | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Antipyretic | |
| Antirheumatic | Martindale's 28th |
| Antisalmonella MIC=0.625 mg/ml | |
| Antiseptic 4 x phenol | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Antisinusitic | Martindale's 28th |
| Antispasmodic ED50=0.01 mg/ml | Fitoterapia No.59-1984. |
| Antistaphylococcic MIC=0.625 mg/ml | |
| Antistreptococcic MIC=0.4 mg/ml | |
| Antitartar | |
| Antivaginitic | |
| Antivulvitic | |
| Bradycardic 65 mg/3 x day/woman | Martindale's 28th |
| Bronchomucolytic | Advance in Chinese Medicinal Materials Research. 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 200. |
| Bronchomucotropinc | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Bronchorrhic | Advance in Chinese Medicinal Materials Research. 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 200. |

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|-----------------------------------|---|
| CNS-Depressant | |
| CNS-Stimulant | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Calcium-Antagonist | |
| Candidicide MIC=0.625 mg/ml | |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Choleretic | |
| Ciliotoxic | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Congestant | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Convulsant | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R. |
| Counterirritant | |
| Decongestant? 11 mg/man | Eccles, R., et al. 1989. The effects of oral administration of (-)-menthol on nasal resistance to airflow and nasal sensation of airflow in subjects suffering from nasal congestion associated with the common cold. J. Pharm. Pharmacol. 42: 652-654, 1990. |
| Dermatitigenic | |
| Diaphoretic | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Enterorelaxant | J. Aromatherapy 4: 22. |
| Expectorant | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Gastroedative | Merck 11th Edition |
| Irritant | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Myorelaxant | Martindale's 29th |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Neurodepressant | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Neuropathogenic 40-100 mg/day/rat | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Nociceptive | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Perfumery | Merck 11th Edition |
| Pesticide | |
| Refrigerant | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Rubefacient | |
| Termiticide | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Transdermal | |
| Vibriocide | |

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|----------|------|-------|---------|------|--|
| MENTHONE | Leaf | 950.0 | 15400.0 | 1.31 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|----------|------|-------|---------|------|--|

Activities (30)

Acaricide

Allelopathic

Analgesic

Antiacetylcholinesterase
IC50=1.4 mM

Antiaggregant
IC50=750

Antiallergic J. Food Hyg. Soc. Jap. 33(6): 569.

Antibacillary MIC=1.25 mg/ml

Antibacterial
MIC=0.625-5 mg/ml

Antiescherichic MIC=5 mg/ml

Antihistaminic J. Food Hyg. Soc. Jap. 33(6): 569.

Antilisteria MIC=1.25 mg/ml

Antisalmonella MIC=5 mg/ml

Antiseptic 2.25 x phenol Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176)

Antispasmodic ED50=0.044 mg/ml Fitoterapia No.59-1984.

Antistaphylococcic
MIC=0.625-2.5 mg/ml

Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Candidicide MIC=2.5 mg/ml

Cerebrotoxic orl man J. Aromatherapy 4: 24.

Culicide LC50=156-194 mg/l

FLavor FEMA 5-50 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Fungicide

Insecticide LC50=156-194 mg/l

Larvicide LC50=156-194 mg/l

Mutagenic

Nematicide MLC=1 mg/ml Shoyakugaku Zasshi, 44: 183.

Perfumery Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Pesticide

Psychoactive

Sedative Ortiz de Urbina, A.V., Martin*, M.L., Montero, M.J., Moran, A., and San Roman, L. 1988. Sedating and Antipyretic Activity of the Essential Oil of Calamintha sylvatica subsp. Ascendens. Journal of Ethnopharmacology, 25: 165-171, 1989.

Trichomonicide
LD100=600 ug/ml

MENTHONE Flower 950.0 15400.0 Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities (30)

| | |
|---|---|
| Acaricide | |
| Allelopathic | |
| Analgesic | |
| Antiacetylcholinesterase IC50=1.4 mM | |
| Antiaggregant IC50=750 | |
| Antiallergic | J. Food Hyg. Soc. Jap. 33(6): 569. |
| Antibacillary MIC=1.25 mg/ml | |
| Antibacterial MIC=0.625-5 mg/ml | |
| Antiescherichic MIC=5 mg/ml | |
| Antihistaminic | J. Food Hyg. Soc. Jap. 33(6): 569. |
| Antilisteria MIC=1.25 mg/ml | |
| Antisalmonella MIC=5 mg/ml | |
| Antiseptic 2.25 x phenol | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Antispasmodic ED50=0.044 mg/ml | Fitoterapia No.59-1984. |
| Antistaphylococcic MIC=0.625-2.5 mg/ml | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide MIC=2.5 mg/ml | |
| Cerebrotoxic orl man | J. Aromatherapy 4: 24. |
| Culicide LC50=156-194 mg/l | |
| FLavor FEMA 5-50 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | |
| Insecticide LC50=156- 194 mg/l | |
| Larvicide LC50=156-194 mg/l | |
| Mutagenic | |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Psychoactive | |
| Sedative | Ortiz de Urbina, A.V., Martin*, M.L., Montero, M.J., Moran, A., and San Roman, L. 1988. Sedating and Antipyretic Activity of the Essential Oil of Calamintha sylvatica subsp. Ascendens. Journal of Ethnopharmacology, 25: 165-171, 1989. |
| Trichomonicide LD100=600 ug/ml | |

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|---------|------|------|-------|-------|--|
| MYRCENE | Leaf | 10.0 | 105.0 | -0.13 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|---------|------|------|-------|-------|--|

Activities (22)

| | |
|--------------------------------------|--|
| ACE-Inhibitor 100 ug/ml | |
| Aldose-Reductase-Inhibitor 100 ug/ml | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101. |
| Allergenic | |
| Analgesic | Kauderer, B., Zamith, H., Paumgartten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991. |
| Antibacterial | |
| Anticonvulsant | |
| Antimutagenic | Kauderer, B., Zamith, H., Paumgartten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991. |
| Antinitrosaminic | |
| Antinociceptive 10-20 mg/kg ipr mus | Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. J. Pharm. Pharmacol. 42: 877-878, 1990. |
| Antinociceptive 20-40 mg/kg scu mus | Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. J. Pharm. Pharmacol. 42: 877-878, 1990. |
| Antioxidant | Jim Duke's personal files. |
| Antispasmodic | Jim Duke's personal files. |
| Chemopreventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| FLavor FEMA 0.5-9 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Hypothermic | |
| Insectifuge | |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Myorelaxant 100-200 mg/kg | |
| P450-2B1-Inhibitor IC50=0.14 uM | |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |

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|---------|--------|------|-------|------|--|
| MYRCENE | Flower | 10.0 | 105.0 | 0.57 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|---------|--------|------|-------|------|--|

Activities (22)

| | |
|--------------------------------------|--|
| ACE-Inhibitor 100 ug/ml | |
| Aldose-Reductase-Inhibitor 100 ug/ml | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101. |
| Allergenic | |
| Analgesic | Kauderer, B., Zamith, H., Paumgartten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991. |
| Antibacterial | |
| Anticonvulsant | |
| Antimutagenic | Kauderer, B., Zamith, H., Paumgartten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991. |
| Antinitrosaminic | |
| Antinociceptive 10-20 mg/kg ipr mus | Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. J. Pharm. Pharmacol. 42: 877-878, 1990. |
| Antinociceptive 20-40 mg/kg scu mus | Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. J. Pharm. Pharmacol. 42: 877-878, 1990. |
| Antioxidant | Jim Duke's personal files. |
| Antispasmodic | Jim Duke's personal files. |
| Chemopreventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| FLavor FEMA 0.5-9 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Hypothermic | |
| Insectifuge | |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Myorelaxant 100-200 mg/kg | |
| P450-2B1-Inhibitor IC50=0.14 uM | |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |

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|------------|------|--------|--------|-----|--|
| NEOMENTHOL | Leaf | 1482.0 | 5460.0 | 1.4 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|------------|------|--------|--------|-----|--|

| Activities (2) | | | | | |
|---|--------|--------|---------|-------|--|
| Antispasmodic ED50=0.033 mg/ml | | | | | Fitoterapia No.59-1984. |
| Perfumery | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| NEOMENTHOL | Flower | 1482.0 | 5460.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Activities (2) | | | | | |
| Antispasmodic ED50=0.033 mg/ml | | | | | Fitoterapia No.59-1984. |
| Perfumery | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| PIPERITENONE | Leaf | 19.0 | 105.0 | -0.72 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Activities (3) | | | | | |
| Antiacetylcholinesterase IC50=110 ug/ml | | | | | |
| Perfumery | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Toxic 10,000/man | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| PIPERITENONE | Flower | 19.0 | 105.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Activities (3) | | | | | |
| Antiacetylcholinesterase IC50=110 ug/ml | | | | | |
| Perfumery | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Toxic 10,000/man | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| PULEGONE | Leaf | 2574.0 | 28000.0 | 2.94 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Activities (28) | | | | | |
| AChE-Inhibitor | | | | | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, Oest. Biochem. & Physiol., 23, 1985, 383-8. |
| Antiacetylcholinesterase IC50=0.9 mM | | | | | |
| Antiacetylcholinesterase IC50=136 ug/ml | | | | | |
| Antialzheimeran? | | | | | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, Oest. Biochem. & Physiol., 23, 1985, 383-8. |
| Antibacterial | | | | | Economou, D., and Nahrstedt, A. 1991. Chemical, Physiological, and Toxicological Aspects of the Essential Oil of Some Species of the Genus <i>Bystropogon</i> *. <i>Planta Medica</i> , 57: 347, 1991. |
| Anticholinesterase | | | | | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, Oest. Biochem. & Physiol., 23, 1985, 383-8. |
| Antihistaminic | | | | | Ortiz De Urbina, A.V., Martin, M.L., Montero, M.J., Carron, R., Sevilla, M.A., San Roman, L. 1989. Antihistaminic activity of pulegone on the guinea-pig ileum. <i>J. Pharm. Pharmacol.</i> 42: 295-296, 1990. |
| Antipyretic | | | | | |
| Avifuge | | | | | |
| Cancer-Preventive | | | | | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide | | | | | Economou, D., and Nahrstedt, A. 1991. Chemical, Physiological, and Toxicological Aspects of the Essential Oil of Some Species of the Genus <i>Bystropogon</i> *. <i>Planta Medica</i> , 57: 347, 1991. |
| Cerebrotoxic orl man | | | | | J. Aromatherapy 4: 24. |
| Encephalopathic 80 mg/kg orl rat | | | | | Lawrence Review of Natural Products, Jan-92. |
| FLavor FEMA 5-30 | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | | | | | Economou, D., and Nahrstedt, A. 1991. Chemical, Physiological, and Toxicological Aspects of the Essential Oil of Some Species of the Genus <i>Bystropogon</i> *. <i>Planta Medica</i> , 57: 347, 1991. |
| Glutathionalytic | | | | | Lawrence Review of Natural Products, Jan-92. |
| Hallucinogenic | | | | | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That:The Essential Pharmacology of Herbs and Spices. <i>Tips</i> 13:15-20 Huxtable, R.J. 1992b. The Myth of Benficent Nature. The Risk of Herbal Preparations. <i>Ann. Intern. Med.</i> 117(2):165-6; Huxtable, R. |
| Hepatotoxic | | | | | Lewis, E.J. and Friedrich, E.C. 1989. The Essential Oil of <i>Poliomntha incana</i> . <i>Planta Medica</i> 56(2): 224-226, 1990. |
| Herbicide IC50=1.5 uM | | | | | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insecticide | | | | | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, Oest. Biochem. & Physiol., 23, 1985, 383-8. |
| Insectifuge | | | | | |
| Nephrotoxic | | | | | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That:The Essential Pharmacology of Herbs and Spices. <i>Tips</i> 13:15-20 Huxtable, R.J. 1992b. The Myth of Benficent Nature. The Risk of Herbal Preparations. <i>Ann. Intern. Med.</i> 117(2):165-6; Huxtable, R. |
| Neurotoxic | | | | | |
| Perfumery | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | | | | | |
| Pulifuge | | | | | |
| Pulmonotoxic | | | | | |
| Sedative | | | | | |

| | | | | | |
|----------|--------|--------|---------|--|--|
| PULEGONE | Flower | 2574.0 | 28000.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|----------|--------|--------|---------|--|--|

Activities (28)

| | | | | | |
|--|--|--|--|--|--|
| AChE-Inhibitor | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, Oest. Biochem. & Physiol., 23, 1985, 383-8. | | | | |
| Antiacetylcholinesterase IC50=0.9 mM | | | | | |
| Antiacetylcholinesterase IC50=136 ug/ml | | | | | |
| Antialzheimeran? | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, Oest. Biochem. & Physiol., 23, 1985, 383-8. | | | | |
| Antibacterial | Economou, D., and Nahrstedt, A. 1991. Chemical, Physiological, and Toxicological Aspects of the Essential Oil of Some Species of the Genus Bystropogon*. Planta Medica, 57: 347, 1991. | | | | |
| Anticholinesterase | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, Oest. Biochem. & Physiol., 23, 1985, 383-8. | | | | |
| Antihistaminic | Ortiz De Urbina, A.V., Martin, M.L., Montero, M.J., Carron, R., Sevilla, M.A., San Roman, L. 1989. Antihistaminic activity of pulegone on the guinea-pig ileum. J. Pharm. Pharmacol. 42: 295-296, 1990. | | | | |
| Antipyretic | | | | | |
| Avifuge | | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | | |
| Candidicide | Economou, D., and Nahrstedt, A. 1991. Chemical, Physiological, and Toxicological Aspects of the Essential Oil of Some Species of the Genus Bystropogon*. Planta Medica, 57: 347, 1991. | | | | |
| Cerebrotoxic orl man | J. Aromatherapy 4: 24. | | | | |
| Encephalopathic 80 mg/kg orl rat | Lawrence Review of Natural Products, Jan-92. | | | | |
| FLavor FEMA 5-30 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Fungicide | Economou, D., and Nahrstedt, A. 1991. Chemical, Physiological, and Toxicological Aspects of the Essential Oil of Some Species of the Genus Bystropogon*. Planta Medica, 57: 347, 1991. | | | | |
| Glutathionalytic | Lawrence Review of Natural Products, Jan-92. | | | | |
| Hallucinogenic | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That:The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R. | | | | |
| Hepatotoxic | Lewis, E.J. and Friedrich, E.C. 1989. The Essential Oil of Poliomintha incana. Planta Medica 56(2): 224-226, 1990. | | | | |
| Herbicide IC50=1.5 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. | | | | |
| Insecticide | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, Oest. Biochem. & Physiol., 23, 1985, 383-8. | | | | |
| Insectifuge | | | | | |
| Nephrotoxic | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That:The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R. | | | | |
| Neurotoxic | | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Pesticide | | | | | |
| Pulifuge | | | | | |
| Pulmonotoxic | | | | | |
| Sedative | | | | | |

| | | | | | |
|----------|------|------|------|-------|--|
| SABINENE | Leaf | 10.0 | 70.0 | -0.22 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|----------|------|------|------|-------|--|

Activities (5)

| | | | | | |
|------------------|---|--|--|--|--|
| Antibacterial | | | | | |
| Antihelicobacter | | | | | |
| Antiseptic | | | | | |
| Antiulcer | | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |

| | | | | | |
|----------|--------|------|------|-------|--|
| SABINENE | Flower | 10.0 | 70.0 | -0.55 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|----------|--------|------|------|-------|--|

Activities (5)

| | | | | | |
|------------------|---|--|--|--|--|
| Antibacterial | | | | | |
| Antihelicobacter | | | | | |
| Antiseptic | | | | | |
| Antiulcer | | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |

| | | | | | |
|-------------|--------|----|----|--|--|
| SPATHULENOL | Flower | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------|--------|----|----|--|--|

| | | | | | |
|-------------|------|----|----|--|--|
| SPATHULENOL | Leaf | -- | -- | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------|------|----|----|--|--|

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|---------------|------|------|-------|-------|--|
| TERPINEN-4-OL | Leaf | 48.0 | 175.0 | -0.24 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|---------------|------|------|-------|-------|--|

Activities (23)

| | |
|--|---|
| Allelopathic | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |
| Antiacetylcholinesterase IC21-24=1.2 mM | |
| Antiacne | |
| Antiallergic | |
| Antiasthmatic | Chin. J. Tuber. Respir. Dis., 4:203, 1982. |
| Antibacterial | |
| Antioxidant | |
| Antiseptic | Flav. & Frag. J. 9: 129. |
| Antispasmodic | |
| Antitussive | Chin. J. Tuber. Respir. Dis. |
| Antiulcer | |
| Bacteriostatic | Chin. J. Tuber. Respir. Dis. |
| Diuretic 0.1 ml/rat | |
| Fungicide | |
| Herbicide IC50=200 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Herbicide IC50=22 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectifuge | |
| Irritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Pesticide | |
| Renoirritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Spermicide ED100=0.015 | |
| Vulnerary | Lawrence Review of Natural Products, Jan-91. |

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|---------------|--------|------|-------|------|--|
| TERPINEN-4-OL | Flower | 48.0 | 175.0 | 1.25 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|---------------|--------|------|-------|------|--|

Activities (23)

| | |
|--|---|
| Allelopathic | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |
| Antiacetylcholinesterase IC21-24=1.2 mM | |
| Antiacne | |
| Antiallergic | |
| Antiasthmatic | Chin. J. Tuber. Respir. Dis., 4:203, 1982. |
| Antibacterial | |
| Antioxidant | |
| Antiseptic | Flav. & Frag. J. 9: 129. |
| Antispasmodic | |
| Antitussive | Chin. J. Tuber. Respir. Dis. |
| Antiulcer | |
| Bacteriostatic | Chin. J. Tuber. Respir. Dis. |
| Diuretic 0.1 ml/rat | |
| Fungicide | |
| Herbicide IC50=200 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Herbicide IC50=22 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectifuge | |
| Irritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Pesticide | |
| Renoirritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Spermicide ED100=0.015 | |
| Vulnerary | Lawrence Review of Natural Products, Jan-91. |

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|-------------------------|------|------|------|--|--|
| TRANS-ALPHA-BERGAMOTENE | Leaf | 19.0 | 70.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------------------|------|------|------|--|--|

| | | | | |
|-------------------------|--------|------|------|--|
| TRANS-ALPHA-BERGAMOTENE | Flower | 19.0 | 70.0 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------------------|--------|------|------|--|

| | | | | |
|----------------|------|----|----|--|
| TRANS-ANETHOLE | Leaf | -- | -- | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|----------------|------|----|----|--|

Activities (8)

Analgesic 10-100 ug/ml

Anesthetic 10-100 ug/ml

Antigenotoxic 40-400 mg/kg orl mus

Antioxidant

Antiradicular

Calcium-Antagonist IC50=75.2 uM gpg (weak activity)

FLavor FEMA 1,250-3,150

Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Sweetener 13 x sucrose

| | | | | |
|----------------|--------|----|----|--|
| TRANS-ANETHOLE | Flower | -- | -- | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|----------------|--------|----|----|--|

Activities (8)

Analgesic 10-100 ug/ml

Anesthetic 10-100 ug/ml

Antigenotoxic 40-400 mg/kg orl mus

Antioxidant

Antiradicular

Calcium-Antagonist IC50=75.2 uM gpg (weak activity)

FLavor FEMA 1,250-3,150

Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Sweetener 13 x sucrose

| | | | | |
|-------------------|------|------|-------|--|
| TRANS-ISOPULEGONE | Leaf | 28.0 | 105.0 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------------|------|------|-------|--|

| | | | | |
|-------------------|--------|------|-------|--|
| TRANS-ISOPULEGONE | Flower | 28.0 | 105.0 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
|-------------------|--------|------|-------|--|