

List of All Chemicals

P Tagetes filifolia (Asteraceae)

Common name(s)

Pampa Anise; Irish Lace

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
(+)-LIMONENE	Essential Oil	--	--		Fester, G., A., Martinuzzi, E. A., Ricciardi, A. I. 1951. Volatile Oils. IV. Rev Fac Ing Quim 20: 47-60. Fac Ing Quim Santa Fe Argentina.
5-(4-ACETOXY-1-BUTENYL)-2,2'-BITHIENYL	Root	--	--		Downum, K. R., Towers, G. H. N. 1983. Analysis of Thiophenes in the Tageteae (Asteraceae) by HPLC. J. Nat. Prod. 46 1: 98-103. Dept. Botany Univ. British Columbia Vancouver BC V6T 1W5 Canada
5-(BUT-3-EN-1-YNYL)-2,2'-BITHIENYL	Root	--	--		Chan, G. F. Q., Lee, M. M., Glushka, J., Towers, G. H. N. 1979. Photosensitizing Thiophenes in Porophyllum, Tessaria and Tagetes. Phytochemistry 18: 1566. Fac. Pharm. Sci. Univ. British Columbia Vancouver BC MBIA Canada.
ALPHA-HUMULENE	Essential Oil	--	5300.0	-0.43	Hussain, R.A., et. al. 1990. Sweetening Agents of Plant Origin: Phenylpropanoid Constituents of Seven Sweet-Tasting Plants. Econ. Bot. 44 2: 174-182. Program Collab. Res. Pharm. Sci. Coll. Pharmacy Univ. Illinois at Chicago IL 60680, USA.
Activities (2)					
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.				
Perfumery	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
ALPHA-PINENE	Shoot	--	4.7	-0.15	*

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-PINENE	Leaf Essent. Oil	--	--	Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
--------------	------------------------	----	----	--

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-TERTHIENYL	Root	--	--		Chan, G. F. Q., Lee, M. M., Glushka, J., Towers, G. H. N. 1979. Photosensitizing Thiophenes in Porophyllum, Tessaria and Tagetes. Phytochemistry 18: 1566. Fac. Pharm. Sci. Univ. British Columbia Vancouver BC MBIA Canada.
------------------	------	----	----	--	--

Activities (10)

Antibacterial	
Antiseptic	Merck 11th Edition
Candidicide	
Fungicide	
Herbicide	
Insecticide	
Larvicide	
Nematicide	
Pesticide	
Phototoxic	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.

ALPHA-THUJENE	Shoot	--	4.7	-0.47	*	
ANETHOLE	Essential Oil	--	620000.0	0.58		Abburraa, R. E., et al. 1990. Study of the Essential Oil of Tagetes filifolia (Asteraceae) as Potential Producer of Estragole and Anethole. An Asoc Quim Argent 78 3: 153-156. Fac Cience Exactas Fis Nat Univ Nac Cordoba Cordoba, Argentina.

Activities (36)

Allergenic	
AntiNF-kB	
AntiTNF	
Antibacterial MBC=200 ug/ml	
Antigenotoxic 40-400 mg/kg orl mus	
Antihepatotic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antiinflammatory	
Antioxidant	
Antiradicular	
Antisalmonella MIC=200 ug/ml	
Antiseptic 200 ug/ml	
Antispasmodic	
Antitumor	
Antiyeast	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	
Carminative	Merck 11th Edition
Dermatitigenic	
Digestive	Michael Castleman 1991. The Healing Herbs. Rodale Press, Emmaus, PA 436 pp.
Estrogenic	Australian J. Med Herbalism, 7: 29.
Expectorant	Martindale's 29th
Fungicide	Wolf, R.B. Effects Of p-Methoxycinnamaldehyde From Star Anise And Related Cinnamic Acid Derivatives On Velvetleaf Germination. Journal of Natural Products, 49(1): 156-158, 1986.
Gastrostimulant	
Hepatotoxic 695 mg/kg orl mus/days	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Immunostimulant	Economic & Medicinal Plant Research, 1: 124.
Insecticide	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Irritant	Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp.
Lactagogue	
Leucocytogenic	Economic & Medicinal Plant Research, 1: 124.
Mutagenic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Nephroprotective	Toxicol Appl. Pharmacol. 1996.
Pesticide	
Secretagogue	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Secretolytic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Sweetener 13 x sucrose	
Sympathomimetic	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

ANISALDEHYDE	Leaf Essent. Oil	--	--		Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
---------------------	------------------------	----	----	--	--

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-CARYOPHYLLENE	Essential Oil	--	2700.0	-0.67	Hussain, R.A., et. al. 1990. Sweetening Agents of Plant Origin: Phenylpropanoid Constituents of Seven Sweet-Tasting Plants. Econ. Bot. 44 2: 174-182. Program Collab. Res. Pharm. Sci. Coll. Pharmacy Univ. Illinois at Chicago IL 60680, USA.
---------------------------	------------------	----	--------	-------	--

BETA-PINENE	Leaf Essent. Oil	--	--		Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
--------------------	------------------------	----	----	--	--

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-THUJENE	Shoot	--	4.7	*
--------------	-------	----	-----	---

CAMPHENE	Shoot	--	--	*
----------	-------	----	----	---

Activities (9)

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.			
Antilithic?	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antioxidant	Jim Duke's personal files.			
Expectorant	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.			
FLavor FEMA 15-175	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry			
Hypocholesterolemic?	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.			
Pesticide				
Spasmogenic	Fitoterapia No.59-1984.			

CEDRENE	Essential Oil	--	300.0	*
---------	---------------	----	-------	---

Activities (1)

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

CIS-BETA-OCIMENE	Leaf Essent. Oil	--	--	Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
------------------	------------------	----	----	--

CITRAL	Essential Oil	--	--	Fester, G. A., Gargallo, M. A., Martinuzzi, E. A. 1947. Some Volatile Essential Oils From San Luis y Cordoba. An Soc Cient Argent 144: 457-471. Fac Quim Ind + Agr Santa Fe Argentina
--------	---------------	----	----	---

Activities (53)

Allergenic	
Antiallergenic	
Antiallergic	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Antianaphylactic	
Antibacterial	
Anticancer	
Antihelicobacter	
Antiherpetic	
Antihistaminic	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Antiinflammatory	
Antileishmanic	
Antioxidant	
Antiseptic 5.2 x phenol	
Antishock	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Antispasmodic	
Antitumor	
Antitumor (Colon)	
Antitumor (Liver)	
Antitumor (Skin)	
Antiulcer	
Antiviral	
Apoptotic	
Barbituate-Synergist	
Bronchorelaxant	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Calcium-Antagonist	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Carcinogenic	
Caspase-3-Inducer	
Chemopreventive	
Cytotoxic	
Estrogenic	
Expectorant	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Flavor FEMA 4-170	Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry
Fungicide MIC 625 ug/ml	
Glaucomagenic	
Glutathionigenic	
Herbicide IC50=115 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.
Myorelaxant 200 mg/kg	
NF-kB-Inhibitor	
NO-Inhibitor	
Nematicide IC52=100 ug/ml	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Nematicide MLC=100-260 ug/ml	Shoyakugaku Zasshi, 44: 183.
P450-2B1-Inhibitor IC50=1.19 uM	
Perfumery	Merck 11th Edition
Pesticide	
Prostatitigenic 185 mg/kg/day/3 ms	
Sedative ED 1-32 mg/kg	Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176)
Sedative 1 mg/kg	
Teratogenic	
Trichomonicide LD100=150 ug/ml	
Trypanocide	
Tyrosinase-Inhibitor ID50=1.5 mM	
Tyrosinase-Inhibitor ID50=1,500 uM	

CITROL	Essential Oil	--	--	Fester, G., A., Martinuzzi, E. A., Ricciardi, A. I. 1951. Volatile Oils. IV. Rev Fac Ing Quim 20: 47-60. Fac Ing Quim Santa Fe Argentina.
DIHYDRO-TAGETONE	Leaf Essent. Oil	--	9000.0	Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
EO	Shoot	--	4700.0	-0.52 *

ESTRAGOLE Essential Oil 350000.0 612600.0 -0.03 Abburraa, R. E., et al. 1990. Study of the Essential Oil of *Tagetes filifolia* (Asteraceae) as Potential Producer of Estragole and Anethole. *An Soc Quim Argent* 78 3: 153-156. *Fac Cience Exactas Fis Nat Univ Nac Cordoba Cordoba, Argentina.*

Activities (12)

Antiaggregant IC50=320 uM Laekeman, G.M., Van Hoof, L., Haemers, A., Vanden Berghe, D.A., Herman, A.G., and Vlietinck, A.J. Eugenol a Valuable Compound for In Vitro Experimental Research and Worthwhile for Further In Vivo Investigation. *Phytotherapy Research* 4(3): 93, 1990.

Calcium-Antagonist IC50=257.6 uM gpg

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

Carcinogenic 4.4 uM/15 mos. scu mus

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

FLavor FEMA 4-150 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Hepatocarcinogenic 0.23-0.46% diet/12 mos.

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

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

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

Mutagenic

Perfumery Merck 11th Edition

ESTRAGOLE Plant 3000.0 950000.0 1.41 Youngken Jr, H. W., Tashiro, J. T. 1970. Survey of Plants for Antimalarial Activity. U. S. Army Med. Res. Develop. Command Rept. (Dept. Pharmacognosy Coll. Pharm. Univ. Rhode Island Kingston RI 02881, USA.

Activities (12)

Antiaggregant IC50=320 uM Laekeman, G.M., Van Hoof, L., Haemers, A., Vanden Berghe, D.A., Herman, A.G., and Vlietinck, A.J. Eugenol a Valuable Compound for In Vitro Experimental Research and Worthwhile for Further In Vivo Investigation. *Phytotherapy Research* 4(3): 93, 1990.

Calcium-Antagonist IC50=257.6 uM gpg

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

Carcinogenic 4.4 uM/15 mos. scu mus

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

FLavor FEMA 4-150 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Hepatocarcinogenic 0.23-0.46% diet/12 mos.

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

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

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

Mutagenic

Perfumery Merck 11th Edition

ESTRAGOLE Leaf Essent. Oil -- 205000.0 -1.35 Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of *Tagetes Minuta* L. and *T. filifolia* Lag. *J. Essent. Oil Res.* 6 6: 617-621. *Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.*

Activities (12)

Antiaggregant IC50=320 uM Laekeman, G.M., Van Hoof, L., Haemers, A., Vanden Berghe, D.A., Herman, A.G., and Vlietinck, A.J. Eugenol a Valuable Compound for In Vitro Experimental Research and Worthwhile for Further In Vivo Investigation. *Phytotherapy Research* 4(3): 93, 1990.

Calcium-Antagonist IC50=257.6 uM gpg

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

Carcinogenic 4.4 uM/15 mos. scu mus

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

FLavor FEMA 4-150 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Hepatocarcinogenic 0.23-0.46% diet/12 mos.

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

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

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

Mutagenic

Perfumery Merck 11th Edition

EUGENOL-ACETATE Leaf Essent. Oil -- -- Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of *Tagetes Minuta* L. and *T. filifolia* Lag. *J. Essent. Oil Res.* 6 6: 617-621. *Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.*

Activities (1)

Prostaglandin-Synthesis-Inhibitor 1 mM rbt Chen, S. J., Wang, M. H., Chen, I. J. 1996. Antiplatelet and Calcium Inhibitory Properties of Eugenol and Sodium Eugenol Acetate. *Gen Pharmacol*, 27(4): 629-633.

EUGENOL-METHYL-ETHER	Essential Oil	--	100.0	-0.74	Hussain, R.A., et. al. 1990. Sweetening Agents of Plant Origin: Phenylpropanoid Constituents of Seven Sweet-Tasting Plants. <i>Econ. Bot.</i> 44 2: 174-182. Program Collab. Res. Pharm. Sci. Coll. Pharmacy Univ. Illinois at Chicago IL 60680, USA.
----------------------	---------------	----	-------	-------	---

Activities (5)

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

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

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

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

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

ISOEUGENOL-METHYL-ETHER	Leaf Essent. Oil	--	9000.0		Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of <i>Tagetes Minuta</i> L. and <i>T. filifolia</i> Lag. <i>J. Essent. Oil Res.</i> 6 6: 617-621. <i>Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.</i>
-------------------------	------------------	----	--------	--	--

LIMONENE	Leaf Essent. Oil	--	--		Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of <i>Tagetes Minuta</i> L. and <i>T. filifolia</i> Lag. <i>J. Essent. Oil Res.</i> 6 6: 617-621. <i>Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.</i>
----------	------------------	----	----	--	--

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	

SABINENE	Leaf Essent. Oil	--	--		Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
----------	------------------------	----	----	--	--

Activities (5)

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

TAGETONE	Essential Oil	--	--		Fester, G., A., Martinuzzi, E. A., Ricciardi, A. I. 1951. Volatile Oils. IV. Rev Fac Ing Quim 20: 47-60. Fac Ing Quim Santa Fe Argentina.
----------	------------------	----	----	--	---

Activities (2)

Juvabional
 Pesticide

TRANS-ANETHOLE	Essential Oil	--	365800.0	-0.07	Hussain, R.A., et. al. 1990. Sweetening Agents of Plant Origin: Phenylpropanoid Constituents of Seven Sweet-Tasting Plants. Econ. Bot. 44 2: 174-182. Program Collab. Res. Pharm. Sci. Coll. Pharmacy Univ. Illinois at Chicago IL 60680, USA.
----------------	------------------	----	----------	-------	--

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	Leaf Essent. Oil	--	713000.0	0.24	Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
----------------	------------------------	----	----------	------	--

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-BETA-OCIMENE	Leaf Essent. Oil	--	--		Zygadlo, J. S., Guzman, C. A., Grosso, N. R. 1994. Antifungal Properties of the Leaf Oils of Tagetes Minuta L. and T. filifolia Lag. J. Essent. Oil Res. 6 6: 617-621. Cat Quim Org Fac Cien Exact Univ Nacion Cordoba Cordoba 5000 Argentina.
--------------------	------------------------	----	----	--	--