

# List of All Chemicals

## Calotropis sp. (Asclepiadaceae)

### Common name(s)

Giant Milkweed

### 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
3-O-ACETYL-CALOTROPIN	Plant	--	--		*
ALPHA-AMYRIN	Bark	--	--		*
<b>Activities (10)</b>					
Analgesic					
Antiedemic IC43=40 mg/kg ipr rat					
Antiinflammatory IC71=1,000 ppm orl					
Antinociceptive					
Antitumor					
Antiulcer					
Cytotoxic 50-400					
Gastroprotective					
Hepatoprotective					
Insectifuge					
ALPHA-AMYRIN-BENZOATE	Plant	--	--		*
ALPHA-CALOTROPEOL	Plant	--	--		*
ALPHA-LACTUCEROL	Latex Exudate	--	--		*
ALPHA-LACTUCERYL-ACETATE	Latex Exudate	--	--		*
ALPHA-LACTUCERYL-ISOVALERATE	Latex Exudate	--	--		*
ARABINOSE	Leaf	--	--		*
ASCLEPIIN	Bark	--	--		*
ASH	Seed	--	65500.0	0.53	*
BENZOYLISOLINEOLONE	Root	--	--		*
BENZOYLLINEOLONE	Root	--	--		*
BETA-AMYRIN	Bark	--	--		*
<b>Activities (9)</b>					
Analgesic					
Antiedemic IC27=40 mg/kg ipr rat					
Antiinflammatory					
Antinociceptive					
Antiulcer					
Gastroprotective					
Hepatoprotective					
Larvicide					
Mosquitocide					
BETA-AMYRIN-BENZOATE	Plant	--	--		*
BETA-CALOTROPEOL	Plant	--	--		*
BETA-SITOSTEROL	Bark	--	--		*

**Activities (47)**

Androgenic	
Angiogenic	
Anorexic	Martindale's 28th
Antiadenomic	Merck 11th Edition
Antiandrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antibacterial	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Anticancer (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103.
Anticancer (Cervix)	
Anticancer (Lung)	
Antiedemic IC54=320 mg/kg orl	
Antiestrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antifertility	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antigonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antihyperlipoproteinaemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antiinflammatory	
Antileukemic	
Antilymphomic	
Antimutagenic 250 ug/ml	
Antiophidic 2.3 mg mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC44=10 uM	
Antiprogestational	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antiprostaglandin 30 mg/day/12 wks	
Antiprostataadenomic	Merck 11th Edition
Antiprostatic 10-20 mg 3 x/day/orl man	
Antipyretic	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Antitumor (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103.
Antitumor (Cervix)	
Antitumor (Lung)	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in Artemisia annua. Plant Science, 75: 161-165, 1991.
Apoptotic	
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, c., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of Melodorum fruticosum. Phytochemistry. 29(5): 1667-1670. 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Caspase-8-Inducer	
Estrogenic	
Febrifuge	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Gonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Hepatoprotective	
Hypocholesterolemic 2-6 g/man/day/orl	Martindale's 30th
Hypocholesterolemic 9-3,330 mg/man/day/orl	Martindale's 28th
Hypoglycemic	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. Journal of Ethnopharmacology, 27: 243-275, 1989.
Hypolipidemic 2-6 g/day	
Pesticide	
Spermicide	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Ubiquiot	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Ulcerogenic 500 mg/kg ipr rat	

CALACTIN Latex Exudate -- -- \*

**Activities (1)**

Cardioactive

CALOTOXIN Latex Exudate -- -- \*

**Activities (1)**

Cardioactive

CALOTROPAGENIN	Leaf	--	--		*
CALOTROPIN	Latex Exudate	--	--		*
<b>Activities (3)</b>					
Antitumor ED50=25 ppb					
Cardioactive					
Proteolytic					
CALOTROPINE	Seed	--	94.0		*
CAOUTCHOUC	Latex Exudate	8000.0	25000.0	-0.67	*
COROGLAUCOGENIN	Seed	--	4370.0		*
COROTOXIGENIN	Seed	--	66.0		*
D-GLUCOSAMINE	Leaf	--	--		*
<b>Activities (3)</b>					
Antiflu	Vlietinck, A.J. and Dommissie, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart.				
Antiherpetic	Vlietinck, A.J. and Dommissie, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart.				
Antiviral	Vlietinck, A.J. and Dommissie, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart.				
FAT	Seed	268000.0	366000.0	0.53	*
FRUGOSIDE	Seed	224.0	2310.0		*
GIGANTEOL	Plant	--	--		*
GIGANTIN	Plant	--	--		*
GLUCOSE	Leaf	--	--		*
<b>Activities (7)</b>					
Acetylcholinergic					
Antiedemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Antihepatotoxic	Merck 11th Edition				
Antiketotic	Merck 11th Edition				
Antivaricose	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Hyperglycemic	Merck 11th Edition				
Memory-Enhancer	Science News, 138: 189, 1990.				
HISTAMINE	Latex Exudate	--	--		*
<b>Activities (18)</b>					
Allergenic					
AntiMeniere's	Martindale's 28th				
Antichilblain	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Antimigraine	Martindale's 28th				
Bronchoconstrictor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Bronchostimulant	Martindale's 28th				
Cardiovascular 0.15 mg/kg ivn rbt	Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. Drug Dosage in Laboratory Animals: A Handbook. (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006.				
Gastrostimulant	Martindale's 28th				
Histaminic Antidote:Adrenaline	Martindale's 29th				
Hypotensive	Martindale's 28th				
Irritant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Myostimulant	Martindale's 29th				
Radioprotective	Martindale's 28th				
Secretagogue	Martindale's 29th				
Spasmogenic					
Tachycardic	Martindale's 29th				
Ulcerogenic 100 mg/kg ipr rat					
Vasodilator	Martindale's 29th				
ISOGIGANTEOL	Plant	--	--		*

ISOLACTUCEROL	Latex Exudate	--	--		*
ISOLINEOLONE	Root	--	--		*
LAURANE	Seed	--	--		*
LINEOLONE	Root	--	--		*
LINOLEIC-ACID	Seed	86000.0	117000.0	0.08	*

#### Activities (27)

##### 5-Alpha-Reductase-Inhibitor

AntiMS Economic & Medicinal Plant Research, 6: 189.

Antiacne

Antiallopecic

Antianaphylactic Economic & Medicinal Plant Research, 6: 189.

Antiandrogenic

Antiarteriosclerotic

Antiarthritic Economic & Medicinal Plant Research, 6: 189.

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

Antieczemic Economic & Medicinal Plant Research, 6: 189.

Antifibrinolytic Economic & Medicinal Plant Research, 1: 53.

Antigranular

Antihistaminic Economic & Medicinal Plant Research, 6: 189.

Antiinflammatory IC50=31  
uM

Antileukotriene-D4 IC50=31  
uM

Antimenorrhagic Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Antiprostatic Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

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

Carcinogenic Science News, 146: 421.

Comedolytic

Hepatoprotective

Hypocholesterolemic Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Immunomodulator Economic & Medicinal Plant Research, 6: 189.

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

Metastatic Science News, 146: 421.

Nematicide Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

Propecic

LINOLENIC-ACID	Seed	2400.0	3300.0	-0.52	*
MELISSYL-ALCOHOL	Seed	--	--		*
MUDARINE	Leaf	--	--		*
OLEIC-ACID	Seed	139000.0	190000.0	0.58	*

Activities (18)	
5-Alpha-Reductase-Inhibitor	
Allergenic	
Alpha-Reductase-Inhibitor	
Anemiagenic	
Antialopecic	
Antiandrogenic	
Antiinflammatory IC50=21 uM	
Antileukotriene-D4 IC50=21 uM	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Choleretic 5 ml/man	
Dermatitigenic	
FLavor FEMA 1-30	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Irritant	Merck 11th Edition
Percutaneostimulant	Seki, T., Toeda, C., Kawaguchi, T., Juni, K., Sugibayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. Chem. Pharm. Bull. 38(11): 3086-3089, 1990.
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Propepic	

PALMITIC-ACID	Seed	39900.0	54900.0	0.43	*
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Activities (13)	
5-Alpha-Reductase-Inhibitor	
Antialopecic	
Antiandrogenic	
Antifibrinolytic	Economic & Medicinal Plant Research, 1: 53.
Antioxidant IC40=60	
FLavor FEMA 1	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Hemolytic	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Hypercholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Lubricant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Nematicide	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Pesticide	
Propepic	
Soap	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

PROCEROSIDE	Latex Exudate	--	--		*
PROTEIN	Seed	270000.0	301000.0	0.6	*
PSEUDOCALOTROPAGENIN	Plant	--	--		*
RHAMNOSE	Leaf	--	--		*
STIGMASTEROL	Seed	--	--		*

Activities (12)	
Antihepatotoxic	
Antiinflammatory	Lawrence Review of Natural Products, 1995
Antinociceptive	
Antiphidic 2.3 mg ipr mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC33=10 uM	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in Artemisia annua. Plant Science, 75: 161-165, 1991.
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, c., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of Melodorum fruticosum. Phytochemistry. 29(5): 1667-1670. 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Estrogenic	
Hypocholesterolemic	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Ovulant	
Sedative	

SYRIOGENIN	Latex Exudate	--	--		*
TARAXASTEROL	Bark	--	--		*
<b>Activities (2)</b>					
Antiedemic					
Antiinflammatory 1/2 indomethacin					
TARAXASTEROL-BENZOATE	Plant	--	--		*
TRYPsin	Latex Exudate	--	--		*
USCHARIDIN	Latex Exudate	--	--		*
<b>Activities (2)</b>					
Arrow-Poison		Merck 11th Edition			
Cardioactive		Merck 11th Edition			
USCHARIN	Latex Exudate	--	--		*
<b>Activities (1)</b>					
Cardioactive					
UZARIGENIN	Latex Exudate	--	--		*
<b>Activities (2)</b>					
Antitumor					
Cytotoxic					
VORUSCHARIN	Latex Exudate	--	--		*
WATER	Seed	--	74000.0	-0.59	*