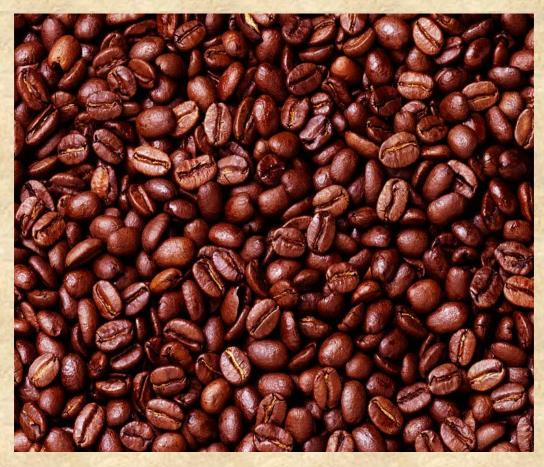
CAMPO RESEARCH COFFEE OIL



novel functional ingredients for multi-purpose formulations



CAMPO RESEARCH PTE LTD

Level 30, 6 Battery Road, Singapore 049909

Email: sales@campo-research.com Website: http://www.campo-research.com

CAMPO® Multi-Purpose Cosmetic Base Chemicals & Active Ingredients

CAMPO® Novel Functional Active Cosmetic Ingredient & Raw Materials

INDEX

Your body contours by cellulite fat busting and skin UV protection

Caffeine's biochemical effects

Coffee Oil Composition

Technical Specification

Material Safety Data Sheets

UV spectrum of caffeine

How it Goes Together

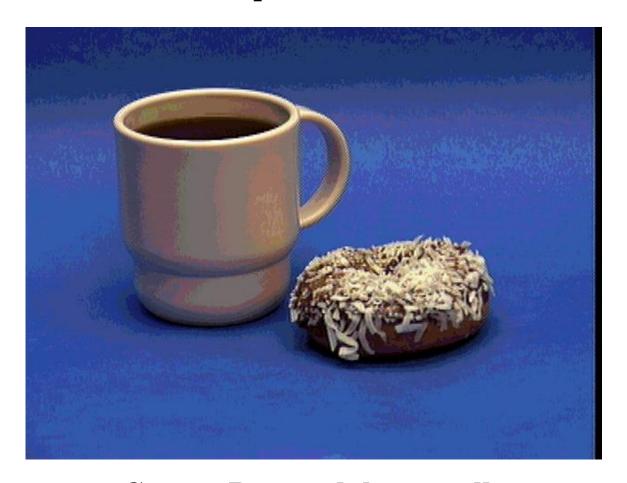
IMPORTANT NOTICE

Specifications may change without prior notice. Information contained in this technical literature is believed to be accurate and is offered in good faith for the benefit of the customer. The company, however, cannot assume any liability or risk involved in the use of its natural products or their derivatives, since the conditions of use are beyond our control. Statements concerning the possible use are not intended as recommendations to use our products in the infringement of any patent. We make no warranty of any kind; expressed or implied, other than that the material conforms to the applicable standard specifications.

Ask about our Herbal Natural Products Chemistry Consultancy Services – Product Registration EEC/UK New Drug Development (NDA-US); Quasi-Drug Topicals (MOHW_Japan); Development of Standards, Analysis & Profiles of Phytochemicals; Literature searches, Cultivation of Medicinal Plants, Clinical-Trials, Development of new uses for Phytochemicals and Extracts; Contract Research and Development Work in Natural Products for Novel Drugs, New Cosmetic Active Ingredients for Active Topica/OTC Cosmetic with functionality and Consumer-perceivable immediate-results, New Food Ingredients for Nutraceuticals & Functional Foods.



What does this cup of Coffee do to your body contours by cellulite fat busting and skin UV protection?



Campo Research knows all For Detailed Answers Contact Campo's Representatives:

Caffeine's biochemical effects

There are four ways in which caffeine stimulates the nervous system. of these, one is of primary importance. Another has some level of importance, and the other two only occur at unrealistically high levels of caffeine in the body.

The first of these methods, and the most important, is blocking adenosine receptors. As caffeine has a similar structure to the adenosine group, but also has more heavily electrophilic and nucleophilic functional groups than adenosine (as, for instance, seen in cyclic AMP). This means that caffeine will fit adenosine receptors as well as adenosine itself will. Thus, cyclic AMP remains active, rather than being broken down.

Second among the effects of caffeine is phosphodiesterase inhibition. The phosphodiesterase class of enzymes includes a number of enzymes responsible for breaking down cyclic AMP, thus depriving the body of an energy supply. Caffeine fools phosphodiesterase into attacking it instead, which inhibits the breakdown of cyclic AMP. However, the concentration of caffeine required for this effect to become significant is sufficiently high (of caffeine) that the adenosine blocking remains the dominant factor but a novel occurrence of biochemical effect of phospodiesterase inhibition action will be the conversion of UV rays striking the human skin, which radiation are then converted in the presence of caffeine to more pronounced phospodiesterase inhibition (cellulite fat busting).

The other two laboratory effects of caffeine have been judged insignificant in actual biochemical situations. (not of cosmetic importance)

Coffee Oil Composition

Spark Chromatography- May 23^{rd} 1995 Test run: 7.05.05 - 7.05.038 Results: in % (percentage)

Chemical	(%) Percentage
1,3,7-Trimthyl-2,6-dioxopurine	75%
1,3-Dimethylxanthine	10%
3,7-Dethylyxanthine	1.0%
Phenols	5.5%
Salicyclic acid-3,3-5,5-Trimethycyclohexylester	6.0%
Other methylated purine derivatives (undermined as cAMP phosphodiesterase inhibitors)	2.0%

This assay results certify to be correct.

Dr. JayaGopi Director - Labs. Services JCT Kampoyaki Consumer Safety Lab.

COFFEE OIL

SOLUBILITY

Clear Colorless Ceramide Approx. 35%
Isopropylmyrisate Approx. 40%
Peanut Oil Approx. 30%
Cetoil Approx. 40%
Paraffin oil (Mineral Oil) Approx. 20%
Neem Oil Approx. 30%

Thulasi Ashwini Root Oil in any proportion Sesame Oil in any proportion

Coffee Oil has an excellent photostability. This UV-filter is used with 8% in an O/W- base as a cream to compare and ascertain the sun protective factor.

SPECIFICATION:

NAME: Campo Coffee Oil

SYNONYM: Coffee Arabica Oil Extract

PRODUCT #: 563.97

LATIN NAME : Coffea Arabica

INCI/CTFA NAME: Coffea Arabica Seed Extract

PARTS USED: Seed

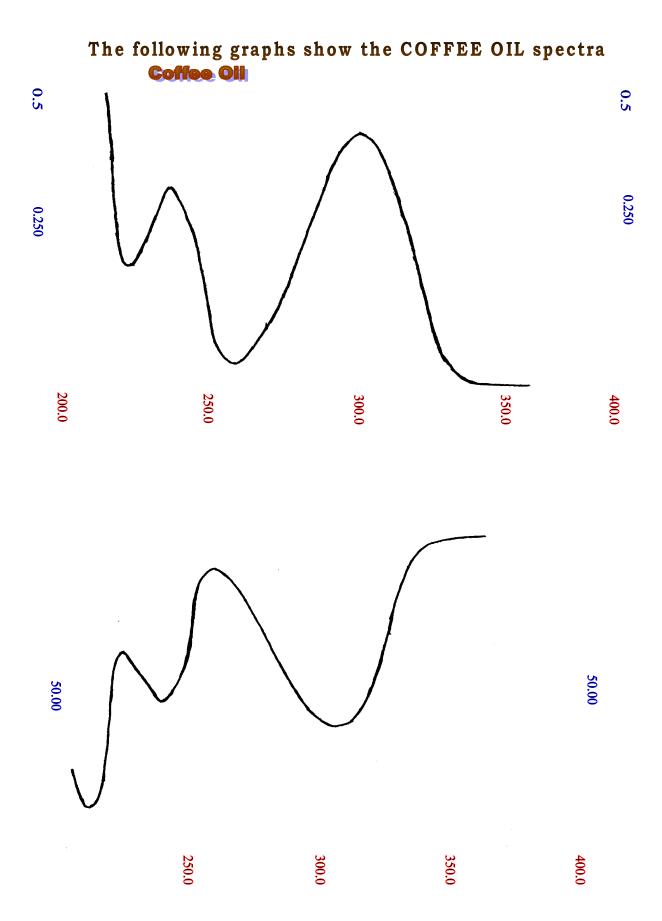
APPEARANCE: Free flowing clear brownish tint liquid

ODOUR: Slight characteristic of brazilian type of coffee smell

SPECIFIC GRAVITY: 0.835 - 0.999

At 20 deg.Cent

AVERAGE DOSAGE: 5 - 6 %



CAMPO RESEARCH Pte Ltd TECHNICAL SPECIFICATION

PRODUCT Name (Campo Research)	CAMPO COFFEE OIL (DECOLORIZED, DEODORIZED)
Other Trade Names (Campo Research)	Coffea Arabica Oil Extract (563.98)
Existing CTFA/INCI Name	CAMPO COFFEE OIL (DECOLORIZED, DEODORIZED)
	, , , , , , , , , , , , , , , , , , ,
Chinese Translation	小果咖啡(COFFEA ARABICA)籽提取物
CAMPO PRODUCT #	963.988 - HS CODE 1302
HS Code:	1302.19.0000
CTFA Monograph ID	8659 – Coffea Arabica (Coffee) Seed Extract
CAS#	84650-00-0 – Coffea Arabica (Coffee) Seed Extract
CAS# EU	84650-00-0 (EU) – Coffea Arabica Seed Extract
EINECS Number and Name	283-481-1(1) – Coffea Arabica (Coffee) Seed Extract
EINECS# EU	283-481-1 (EU) – Coffea Arabica Seed Extract
EINECS Number and Name	Coffea Arabica (Coffee) Seed Extract
EINECS# EU	http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=s
European Commission–Health &	earch.details_v2&id=55646
Consumer Cosmetics–Cosing	Coffea Arabica Seed Extract – 283-481-1 (EU)
BATCH/LOT #	See COA Batch Lot
SPECIES	Coffea arabica
	Syn: Coffea Arabica Seed Extract
PARTS USED	Seed
RAW MATERIAL - ORIGIN	INDONESIA
CONCENTRATION	50kg = 1kg extract
COMMENTS	A Quality Management System, compliant to the International Standard
	ISO 9001, was used to manufacture and test this material
	*Please take note that all specifications are liable to changes
	without prior notice.

Specification Parameter Analysis	Specification Range	Results	Methods
Physical Form	Oil free flowing Liquid	Conforms	Visual
Colour	Almost Clear Colorless Liquid (Light Yellowish Tint)	Conforms	Visual
Odour	Characteristic - faint	Conforms	Olfactory
Specific Gravity (20deg.C)	0.850 - 1.999	See COA	USP XXIX/Paar,DMA35
Refractive Index (20deg.C)	1.400- 1.490	See COA	USP XXIX/DGF IV C (52)
pH(20deg.C.) (100% concentrate)	3.5 - 5.5	See COA	USP XXIX/DGF H III (92)
Water Content	0.0050 - 0.0350	See COA	-
Viscosity	-	-	-
Water Solubility	-	See COA	-
Dry Residue (160deg.C/2hrs)	5% - 45%	See COA	Mettler 16J
Preservation	None	Conforms	-
Pesticide Content	None	Conforms	Pflanzaniaschuttal1989
Total Germs	<100 CFU/ml	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
Total Yeast/Mold	<100 CFU/ml	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
Heavy Metals (Total)As,Pb,Hg	<0.060 ppm	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
Composition Purines:	Percentages (%) 75.00%		Assay Method GC/SC
Xanthines	11.00%		GC/SC

Salicylates	6.00%	GC/SC
Phenols	5.50%	GC/SC
CAMPO Phosphodiesterase	2.50%	GC/SC
inhibitors		

CAMPO RESEARCH Pte. Ltd, SINGAPORE
CAMPO RESEARCH USA, INC SAN DEIGO CA 92111, & Manhattan, New York City, USA
CAMPO RESEARCH s.r.o., Brno, Czech Republic
CAMPO RESEARCH Pvt. Ltd, CHENNAI, INDIA
CAMPO RESEARCH CANADA LTD, TORONTO, CANADA

MATERIAL SAFETY & CONSUMER SAFETY TESTING LABS.
DIV. OF JTC KAMPOYAKI SINGAPORE
EMERGENCY MATERIAL SAFETY / ACCIDENTAL RELEASE CENTER Contact:

Emergency Tel.no: +(65)-63833202/<u>63833631(24hours</u>)/63228551/63228503 Emergency Fax No: +(65)-<u>63833632(24hours</u>),63824680, 63228558 EMAIL: msds911@campo-research.com

Campo Coffee Oil ©.

© US. Library-of Congress 1989-2017 ©

"(SAFETY DATA SHEET – compliant to GHS)" CONFIRMS TO EC DIRECTIVE 91/155/EEC, EC REGULATION NO#1272/2008, AMENDED EC REGULATION NO#790/2009 and Complies to The EU Cosmetic Products Regulation (Regulation (EC) No 1223/2009) effective on July 2013., and to EU Commission Regulation No.358/2014/9 of 9th April 2014 amending Annexes II and V, to EU Regulation No No.1223/2009 of The European Parliament and of The Council on Cosmetic products, (Effective Date 31st October 2014) AND to US DEPT.OF LABOR-Occupational Safety & Health Admin directives and compliant to Globally Harmonized System of Classification and Labeling of Chemicals (hereinafter referred to as "the GHS")., and Complies and Confirms to the Requirements of State of California Proposition 65.

A Quality Management System, compliant to the International Standard ISO 9001, was used to manufacture and test this material

http://www.osha.gov/dsg/hazcom/ghs.html

http://www.unece.org/trans/danger/publi/ghs/ghs_welcome_e.html

http://www.hc-sc.gc.ca/ahc-asc/intactiv/ghs-sgh/index-eng.php

DATE OF ISSUE	February 10th 1997-Reviewer -
---------------	-------------------------------

Dr Balasubramaniam PhD

DATE OF LATEST REVISION Aug. 23th 1998- Rev'wer-

> Dr Fergus Jes .G. Velasquez Bsc. Med Tech, MD February 10th 2012 – Reviewer=Joshua Teo February 5th 2013 – Reviewer =

Balasubramaniam M PhD

12th February 2015 - Joshua Teo BSc. Chem,

Balasubramaniam M PhD & Oksana

Nemchenko MD

15th May 2016 - Joshua Teo BSc. Chem, Balasubramaniam M PhD & Oksana

Nemchenko MD

PRODUCT AND COMPANY

OTHER TRADE NAME:

IDENTIFICATION

COMMERCIAL NAME: CAMPO COFFEE OIL

> (DECOLORIZED, DEODORIZED) COFFEA ARABICA OIL EXTRACT

COFFEA ARABICA SEED EXTRACT

LATIN NAME: Coffea arabica

CTFA ADOPTED NAME /INCI NAME: Coffea Arabica Seed Extract

Chinese Translation 小果咖啡(COFFEA ARABICA) 籽提取物

INTERNATIONAL CHEMICAL

IDENTIFICATION

(EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and Compliant

to the GHS:

MANUFACTURER: CAMPO RESEARCH Pte Ltd (cGMP MFG. FACILITIES): Level 30, 6 Battery Road,

Singapore 049909.

EMERGENCY TELEPHONE NUMBERS: (65)-63833631/(65)-63228503 (Singapore) 2 HAZARDS INDENTIFICATION

ITS AMENDMENTS.

NOT CLASSIFIED AS DANGEROUS ACCORDING TO DIRECTIVE 67/548/EEC OR

NO HAZARD STATEMENT

DIVISION 1.6; NON-HAZARDOUS

HAZARD CLASS and CATEGORY CODE(s)

 ${\bf HAZARD\ STATEMENT\ CODE}(s)$

(EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and compliant to

the GHS

PICTOGRAM: NONE

No GHS Pictogram (Totally Non-Hazardous) Division 1.6: NO HAZARD STATEMENT

GHS CLASSIFICATION: PICTOGRAM: NONE

This material is Non-hazardous according

To UN-GHS Criteria.

No GHS Pictogram (Totally Non-Hazardous)

Division 1.6: No Hazard Statement.

GHS LABEL ELEMENTS: No GHS Pictogram (Totally Non-Hazardous)

Division 1.6: No Hazard Statement.

3 COMPOSITION / INFORMATION ON

INGREDIENTS

100 PERCENT CARBON-DIOXIDE GAS EXTRACTED COFFEA ARABICA. -PLANT PARTS OIL SOLUBLE COMPONENTS

Coffea Arabica (Coffee) extract

CTFA Monograph ID: 8659 – Coffea Arabica (Coffee) Seed Extract

CAS# 84650-00-0 – Coffea Arabica (Coffee) Seed Extract
CAS# EU 84650-00-0 (EU) – Coffea Arabica Seed Extract

CAS NO# (CAS Name)
(EC REGULATION NO#1272/2008
AMENDED NO#790/2009)and compliant

to the GHS

84650-00-0 - Coffea Arabica Seed Extract

EINECS Name and Number 283-481-1(1) – Coffea Arabica (Coffee) Seed

EINECS# EU Extract

283-481-1 (EU) – Coffea Arabica Seed Extract

EINECS# (EINECS Name) (EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and compliant

to the GHS

283-481-1 - Coffea Arabica Seed Extract

EINECS Number and Name

EINECS# EU

European Commission-Health & Consumer

Cosmetics-Cosing

Coffea Arabica (Coffee) Seed Extract

http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&id=55646

Coffea Arabica Seed Extract – 283-481-1 (EU

RISK PHRASES None

SAFETY PHRASES 25-26 Not Mandatory

GHS CLASSIFICATION: PICTOGRAM: NONE

This material is Non-hazardous according

To UN-GHS Criteria.

GHS LABEL ELEMENTS: No GHS Pictogram (Totally Non-Hazardous)

Division 1.6: No Hazard Statement.

4 FIRST AID MEASURES

EYE CONTACT: Wash with water or standard eye wash solution.

Seek medical advice, if irritation occur and persist.

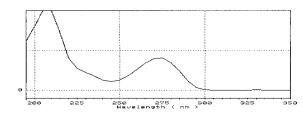
ORAL INGESTATION: Essentially edible in small quantity (10-50gms)

with bitter after taste. SKIN CONTACT: Wash with water or shower. FIRE FIGHTING MEASURERS COMBUSTIBLE BUT PRESENTS NO SPECIAL FIRE HAZARD. **EXTINGUISHING MEDIA:** Treat as oil fire when store in HDPE drums with CO2, dry foam or dry chemical. PROTECTIVE EQUIPMENTS FOR FIGHTERS: Standard Equipments. ACCIDENTAL RELEASE MEASURES ABSORB ONTO AN INERT MATERIAL AND SCRAPE UP. REMOVE RESIDUE BY SCRUBBING WITH HOT WATER OR DETERGENT SOLUTION. HANDLING AND STORAGE STORE IN SEALED CONTAINERS UNDER NORMAL COOL, DRY WAREHOUSING CONDITIONS. EXPOSURE AND PERSONAL PROTECTION IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE AND HANDLING USING STANDARD EYE PROTECTION. PHYSICAL AND CHEMICAL PROPERTIES PHYSICAL FORM: Oil free flowing liquid Almost Clear Colorless (light yellowish tint) COLOUR: ODOUR: Characteristic - faint **BOILING POINT:** 90 deg. cent. **MELTING POINT:** VISCOSITY @ 20°C (mPa.S) FLASH POINT: FLAMMABILITY SOLID/GAS: N/A **AUTO FLAMMABILITY:** N/A 1.400 - 1.490SPECIFIC REFRACTIVE: N/A **EXPLOSIVE PROPERTIES:** pH(20deg.C) (100% solution) 3.50 - 5.50**OXIDIZING PROPERTIES:** N/A RESIDUE ON DRYING (160 deg.C/2hrs.) 5%-45% VAPOUR PRESSURE: N/A DENSITY (specific gravity 20 deg.C): 0.850 - 1.999WATER SOLUBILITY: Insoluble OTHER SOLUBILITY: In Most Cosmetic Solvents **BULK DENSITY:** PARTITION COEFFICIENT: (OCTANOL/WATER) **EXPLOSIVE LIMITS:** 10 STABILITY AND REACTIVITY THERMAL DECOMPOSITION: Stable under normal conditions of use. Animal Tests Last Done 1992, as requirements of 11 TOXICOLOGICAL DATA the then EC DIRECTIVE 91/155/EEC ORAL: LD50 > 36,000 MG/KG (Body Wt.) Rat Essentially Non-Toxic and Edible in Small Quantity. DERMAL: Expected To Be Essentially Non Toxic. INHALATION: Slight Ethanolic Sting - irritation SPECIFIC CONCENTRATION LIMITS 36,000 MG/KG (Body Wt.); CATEGORY 5 **M-FACTORS** Essentially Non-Toxic and Edible in Small (EC REGULATION NO#1272/2008 Quantity. AMENDED NO#790/2009) compliant to the GHS.

TOXIC EFFECTS: SKIN: Primarily Irritation Index (PII) = 0.0 (Non-Irritating - Skintex), Not A Primarily Irritant. Non-irritant / Non-sensitizer as per Repeated Patch Insult Test on 50 Human volunteers. Human Repeated Patch Test 48 hours: 50/50 completely non-irritating / non-erythema causing ingredient at 10% concentrate in water on 50 human volunteers EYE: Very Mild/Minimal - Not A Transient Conjunctival Irritant at 10% concentrate in water (Eyetex -Eyetex classification). Summarized toxicological data as shown here are formation bounded under Non-Disclosure Agreement with various clients as when these Toxicological Data were established or their exclusive uses. **ECOLOGICAL INFORMATION BIODEGRATION:** Expected To Be Ultimately Biodegradable. FISH TOXICITY: No Data **BACTERIAL & VIRAL TOXICITY:** No data WGK CLASS: WGK (Self Classification) DISPOSAL CONDITIONS DISPOSE OFF ACCORDING TO A RECOGNISED METHOD OF CHEMICAL WASTE DISPOSAL. TRANSPORT INFORMATION UN NUMBER#: N/AUN NAME: Not Assigned IMDG CODE/CLASS: Not Hazardous IMDG CODE PAGE NO. N/A ICAO/IATA AIR CLASS: Non-Hazardous ICAO/IATA AIR CLASS PACKING GROUP: N/A RID/ADR CLASS: Non-Hazardous ADNR CLASS: Non-Hazardous LABELLING: (EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and compliant to the GHS. **PICTOGRAM SIGNAL WORD CODE(s):** No GHS Pictograms (Totally Non-Hazardous) Division 1.6; No Hazard Statement **HAZARD STATEMENT CODE(s):** SUPPLEMENTARY HAZARD Similar Division 1.6; No Hazard Statement STATEMENT CODE(s): REGULATORY INFORMATION OCCUPATIONAL EXPOSURE LIMITS: N/A U.S. State of California Proposition 65 None (Exempted from CA Prop 65 Register) **INGREDIENTS Presence** EU Commission Regulation No.358/2014/9 of "Contains No Parabens and nor contains any 9th April 2014 amending Annexes II and V, to Branched Chain Parabens".(EU Regulation No.358/2014/9 of 9th April 2014) EU Regulation No No.1223/2009 of The **European Parliament and of The Council on** Cosmetic products OTHER INFORMATION USES AS A COSMETIC ADDITIVE 0.5 - 5.0 % This format and information is compiled by Novel *Please take note that all specifications are liable Natural Product Chemistry/ Novel Drug Discovery to changes without prior notice. cGMP Labs Kobe, Japan; for Campo Research, Kyoto and Singapore. © US. Library-of Congress 1989-2017 ©

Campo Coffee Oil ©.

UV spectrum of caffeine



Retention time: 2.75min Optimum wavelength: 210nm

Sensitiveness: 1.48ng

Absorbance / 100ng: 0.4738 abs.sec

Apparatus and Analysis conditions

Mobile phase : (10mM HClO4 + 10mM NaClO470%) + (CH3CN30%)

Flow-rate: 1.0mL/min.

Column: FineSIL C18T (25cm x 4.0mm i.d.)

(monomericODS, particle size 5 x 10⁻⁶ m) (Shiseido).

Wavelength: 210-350nm. Column temperature: 50c

880 PU LC pump (Jasco, Hachioji, Japan) System controller 801-SC

- Gradient device 880-02
- **Detector MULTI-320**
- Data processing system DP-L320/98(Jasco, Hachioji, Japan) (Time Accumulation 0.8sec.)

Physical Properties

Molecular Formula: C8H 10N4O2

Molecular weight: 194.19

Chemical name: 1,3,7-trimethylxanthine

Properties: soft, white crystal or powder. Non smell or Slight-Characteristic Coffee. Taste is

slightly bitter.

melting point: 235-238c

log P: -0.07 (Experimentally determined value) 0.07 (Calculated value)

Ionization Constant • @pKa: 0.6; 14.0

Solubility:

Chloroform: easily soluble Water, Ethanol: partially soluble Ether anhydride: hardly soluble

Oral administration / 1day: 300-900mg

References

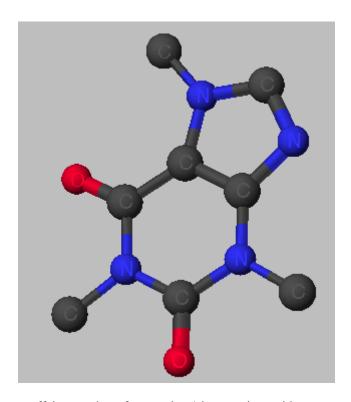
COMPREHENSIVE MEDICAL CHEMISTRY

The Rationary Design, Mechanistic Study & Therapeutic Application of Chemical Compounds Volume 6 (PERGAMON PRESS)

[Other Information]

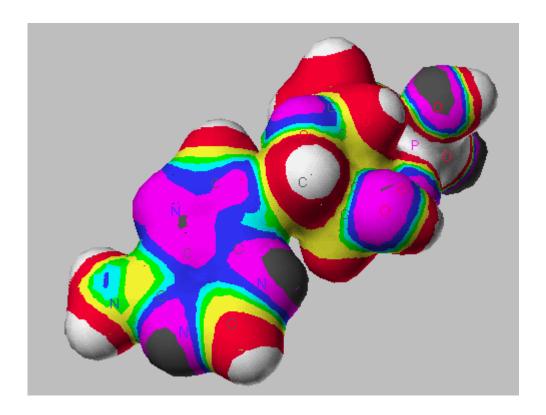
How it Goes Together

UV Filter/Absorbance and Anti-Cellulite Fat Neutralization Activities

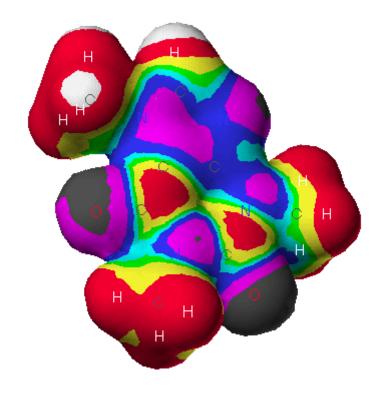


As can be seen above, caffeine consists of two carbon/nitrogen rings with oxygen and methyl groups as substituents. The fused rings are similar to those in adenine (a component of DNA, ATP, and cyclic AMP) -- only the substituents differ.

(cAMP) -the cellulite fat buster (3-D fig. in next page)



The Novel 1,3,7-trimethylxanthine cellulite fat buster



DISCLAIMER:

The information contained herein is accurate to the best knowledge and belief of Campo Research Pte Ltd, and specification quoted may change without prior notice. Information contained in this technical literature is believed to be accurate and is offered in good faith for the benefit of the customer. The company, Campo Research Pte Ltd, however, cannot assume any liabilities or risks involved in the use of its natural products or their derivatives or raw materials or ingredients, since the conditions of use are beyond Campo Research Pte Ltd's control. Statements concerning the possible use are not intended as recommendations to use our materials in the infringement of any patents or infringements of mandatory regulatory requirements or without any safety evaluations conducted when used in combination with materials of other suppliers.. We make no warranty of any kind, expressed or implied, other than that the material conforms to the applicable standard specifications. Campo Research Pte Ltd accepts no liabilities of whatsoever either expressed or as otherwise arising out of the information supplied, the application, adaptation or processing of the products described herein, or the use of other materials in lieu of the Campo materials or the use of Campo raw materials or ingredients in conjunction with any other products and raw materials. The use of Campo Research Pte Ltd's raw materials or ingredients in any formulations are to be compulsory tested and to be assayed for safety and toxicology profiles evaluations and according the mandatory regulations as required by the laws and regulations of the countries where the evaluation and use of Campo Research Pte Ltd's raw materials or ingredients has been formulated as single components in any carrier systems or as in multi-components formularies. The end-users, marketers; manufacturers, formulation laboratories or importers of Campo Research Pte Ltd' raw materials and ingredients which are incorporated into any formularies as formulated or re-sold or re-exported or assayed in accordance with any mandatory regulatory requirements of any country or infringement of any patents assume all liabilities as that may arise out of the use of Campo Research Pte Ltd's raw materials and ingredients in any formularies in combination with raw materials and ingredients of other suppliers or as single components in any carriers. The definition of users as mentioned in these instances are manufacturers, marketers. formulation laboratories, consultants, and importers assumed all liabilities arising as either personal injuries suits, infringements of patents suits, infringements of or failures to meet regulatory requirements suits of a formulary either as single components in any carrier systems or in as multicomponents formularies in which are may consist of a Campo Research Pte Ltd's raw material or ingredients.

IMPORTANT NOTICE

Specifications may change without prior notice. Information contained in this technical literature is believed to be accurate and is offered in good faith for the benefit of the customer. The company, however, cannot assume any liability or risk involved in the use of its natural products or their derivatives, since the conditions of use are beyond our control. Statements concerning the possible use are not intended as recommendations to use our products in the infringement of any patent. We make no warranty of any kind; expressed or implied, other than that the material conforms to the applicable standard specifications.