

ESTIMATION OF CAFFEINE CONTENT FROM SOFT AND ENERGY DRINKS OBTAINED FROM REGIONAL MARKET BY UV SPECTROSCOPY AND TLC.

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Abstract: This research is for to estimate the concentration of caffeine in soft drinks and energy drinks. In pure form, caffeine is a crystalline white powder moderately soluble in water and in a wide range of organic solvent such as ethanol, ethyl acetate, methanol, dichloromethane, chloroform etc. The caffeine is determined by using UV-Visible spectroscopy method using dichloromethane as an extracting solvent at 273nm wavelength. The method was found to be fast, simple, cost effective and environmental friendly for the determination of caffeine in soft drinks with satisfactory results. Caffeine is found in many beverages such as coffee, tea, energy drinks and colas which make the drinks addictive. Caffeine content in various energy drinks and beverage varies from 10 to 50 mg of caffeine per serving; however the US Food and Drug Administration (FDA, 2006) limits the maximum amount in carbonated beverages to 6 mg/oz. Large amount of caffeine consumption can cause physiological and psychiatrically dependence. The aim of this study is to determine the concentration of caffeine in soft drinks and energy drinks brands available in India to ensure whether the caffeine concentration in the follow soft drinks & energy drinks as per FDA recommendation or not. And other purpose of this research is to find erosion property of caffeine by determining buffer capacity. This research also helps to identify purity of caffeine by TLC (By measuring Rf value of sample compared with standard caffeine).

Keywords: Caffeine, soft drinks & energy drinks, UV Spectroscopy, TLC.

INTRODUCTION: Caffeine is a frequently used ingredient of energy drinks. It is added as a flavoring agent and to make the drinks addictive. Caffeine is a bitter in taste, white crystalline xanthenes alkaloid that acts as a psychoactive stimulant drug and a mild diuretic. It is an alkaloid of methylxanthine family. The methylxanthenes caffeine (1,3,7-trimethylxanthine), theobromine (3,7-dimethylxanthine), and theophylline (1,3-dimethylxanthine) can be normally found in colas nuts, coffee beans, cocoa beans, tea leaves, mate leaves and other kinds of plants. Caffeine serves as an ingredient in many carbonated soft drinks including colas, pepper-type beverages, and citrus beverages. Pure caffeine occurs as odorless, white, fleecy masses, glistening needles of powder. Caffeine has drawn more attention in the past decades due to its physiological effects beyond that of its stimulatory effect. The Food and Drug Administration (FDA) defines caffeine as a generally recognized as safe (GRAS) substance. However, FDA specifies that the maximum amount in carbonated beverages is limited to 0.02% (FDA, 2006).^[1,2]

STRUCTURE OF CAFFEINE:



Figure no.1 Structure of caffeine

Method Estimation Caffeine In Drinks Manual

Mark Dutton



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A Manual of Practical Chemistry Alexander Wynter Blyth, 1879 **Law's Grocer's manual** James Thomas Law (of Liverpool.), 1902 **Caffeine Dependence** Mira Skylark, AI, 2025-03-12 Caffeine Dependence explores the significant impact of caffeine on our daily lives examining its effects on energy levels mood regulation and overall well being Many individuals rely on caffeine to kickstart their day or combat afternoon slumps often unaware of the underlying dependence The book highlights how caffeine a widely consumed psychoactive substance affects both physical and psychological states making it challenging to function without it Understanding these mechanisms is key to mindfully managing intake The book traces caffeine's journey from ancient rituals to modern day ubiquity revealing how it has become deeply embedded in our routines It delves into caffeine's chemical properties physiological effects and psychological dimensions of dependence including its impact on mood anxiety and sleep patterns The book further analyzes withdrawal symptoms such as headaches and fatigue and explores factors influencing their severity Drawing from scientific studies and personal accounts Caffeine Dependence adopts a fact based approach presenting complex concepts in an accessible manner The book progresses logically starting with caffeine's effects on the body and mind moving to the science of withdrawal and culminating in practical strategies for managing consumption These strategies include tapering methods alternative energy sources and lifestyle adjustments Readers will gain practical knowledge to identify dependence manage withdrawal and make informed decisions about their caffeine habits empowering them to take control of their consumption **Advances in Usability**

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Stormwater Effects Handbook G. Allen Burton Jr.,Robert Pitt,2001-08-29 A stand alone working document Stormwater Effects Handbook A Toolbox for Watershed Managers Scientists and Engineers assists scientists and regulators in determining when stormwater runoff causes adverse effects in receiving waters This complicated task requires an integrated assessment approach that focuses on sampling before during and after *Journal of Studies on Alcohol* ,1980 The contents alternate monthly original articles in odd numbered months current literature in even numbered months Dietary Methodology Workshop for the Third National Health and Nutrition Examination Survey ,1992 Four essays and a general introduction provide contemporary readings of *The Grapes of Wrath* for a general audience Written in an accessible style the essays cover the issues and themes of Steinbeck's politics metaphors of movement and growth views of women uses of documentary and the conversion of the novel into film The introduction provides a history of the novel's public reception a summary of the major phases of critical response and a reading of the novel as an act of returning west to Steinbeck's lost California **Vital and Health Statistics** ,1965 Quarterly Journal of Studies on Alcohol ,1980 Includes sections Activities of the Research Council on Problems of Alcohol and Current literature Orthopaedic Examination, Evaluation & Intervention Mark Dutton,2004-04-16 The most comprehensive text for the core orthopaedics course required in all physical therapy programs Includes all of the necessary information to provide a high level of care to patients with any musculoskeletal dysfunction by integrating anatomy and biomechanics with treatment strategies Features case studies extensive illustrations and guidelines from the American Physical Therapy Association APTA which are integrated throughout Laboratory Test Handbook David S. Jacobs,1996 Contains information about laboratory procedures including test name and synonyms patient care recommendations specimen requirements reference ranges interpretive information footnotes and references This ed has expanded coverage of laboratory assays related to molecular pathology and treatments of clinical virology and therapeutic drug monitoring **Dutton's Orthopaedic: Examination, Evaluation and Intervention Fourth Edition** Mark Dutton,2016-07-29 Updated edition of the 1 orthopaedic evidence based textbook and reference guide A Doody's Core Title for 2019 Dutton's Orthopaedic Examination Evaluation and Intervention provides readers with a systematic

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Laboratory Manual for the Detection of Poisons and Powerful Drugs Wilhelm Autenrieth, 1928 Pharmaceutical Record and Weekly Market Review P. W. Bedford, 1887 **Drug Information Handbook** Charles Lacy, 2000 Journal of the American Dietetic Association, 1998 Drug Information Handbook Charles F. Lacy, Lora L. Armstrong, Morton P. Goldman, Leonard L. Lance, 2003

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m 346 master advanced fighter trainer airforce technology - Jan 28 2022

web feb 13 2018 the m 346 has a maximum speed of 1 000km h 585kt and range of 2 590km 1 400nm the m 346 is an advanced and lead in fighter trainer with high angle of attack capability the m 346 master is an advanced and lead in fifth generation fighter trainer developed by alenia aermacchi italy a finmeccanica company

m 346 leonardo aircraft - Feb 09 2023

web the m 346 is a jet aircraft optimised for advanced military pilot training offering a broad range of training capabilities combined with long term reliability at the heart of a complex and integrated training system the m 346 is already in service with the air forces of italy singapore israel poland qatar and greece

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italian m 346 master trainer aircraft defence turkey magazine - Sep 04 2022

web feb 8 2021 with the m 346 pilots can learn to use almost all kinds of western air to air missiles and radars during their training it can use laser guided or dumb munitions against fixed or moving targets and also emulate these shots virtually with *alenia aermacchi m 346 master wikipedia* - Jun 13 2023

web the aermacchi m 346 master is a family of military twin engine transonic advanced jet trainers and light combat aircraft originally co developed with yakovlev as the yak aem 130 the partnership was dissolved in 2000 and then alenia aermacchi proceeded to separately develop the m 346 master while yakolev continued work on the yakovlev

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m 346fa fighter attack aircraft airforce technology - Feb 26 2022

web jul 10 2017 engine and performance of m 346fa combat aircraft the m 346fa fighter aircraft is powered by two honeywell f124 ga 200 turbofan engines which develop a maximum thrust of 2 850kg each the powerplant delivers a limit speed of 572kt and a maximum level speed of 590kt

yunanistan ın İsrail den aldığı m 346 uçaklarının ikisi ülkeye ulaştı - Oct 05 2022

web sep 14 2021 anlaşma kapsamında yunan hava kuvvetleri 10 adet m 346 tedariki gerçekleştirecek ve İsraili savunma sanayi şirketi elbit systems tarafından bir uçuş okulu kurulacak yunanistan ın onayladığı 22 yıllık anlaşmanın iki ülke arasında bugüne kadar imzalanan en büyük savunma tedarik anlaşması olduğu kaydedilmişti