

Lithium Ammonia Reduction Ephedrine Methamphetamine

Lithium-Ammonia Reduction of Ephedrine to Methamphetamine Handbook of Forensic Drug Analysis Forensic Investigation of Clandestine Laboratories Comprehensive Chirality Journal of Forensic Sciences Medical Toxicology of Drug Abuse Secrets of Methamphetamine Manufacture Structural Determination of the Principal Byproduct of the Lithium-Ammonia Reduction Method of Methamphetamine Manufacture Recommended Methods for the Identification and Analysis of Amphetamine, Methamphetamine and Their Ring-substituted Analogues in Seized Materials Enantiomeric Analysis of Ephedrines and Norephedrines Clandestine Methamphetamine Laboratory Assessment and Remediation Guidance Forensic Science Abstracts Michigan Law Review Quarterly Journal of Pharmacy and Pharmacology Collected Papers from the Division of Physiological Sciences, Henry Lester Institute of Medical Research, Shanghai Missouri Statewide Drug and Violent Crime Strategy The Stereochemical Configuration of Ephedrine Medical Jurisprudence and Toxicology Opportunities in Neuroscience for Future Army Applications Quarterly Journal of the Chemical Society of London RA. Ely Fred Smith Donnell R. Christian, Jr. Donald G. Barceloux Fester (Uncle.) EC. Person United Nations Office on Drugs and Crime. Laboratory and Scientific Section American Industrial Hygiene Association Sulo Arthur Karjala William Duncan McNally National Research Council Chemical Society (Great Britain)

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a suspected clandestine methamphetamine laboratory was seized in vacaville california
ephedrine a precursor for the manufacture of methamphetamine was discovered at the site
however the chemicals normally expected to be found at an ephedrine conversion laboratory

were not recovered other chemicals found at the scene included tetrahydrofuran ammonium chloride lithium metal and ammonia gas examination of the suspect's notes showed several different common synthesis routes to methamphetamine and a novel route utilizing a lithium ammonia ammonium chloride reduction the reduction of ephedrine to methamphetamine using this dissolving metal procedure has not been reported in the literature the authors reproduced the suspect's reaction scheme and found the lithium ammonia ammonium chloride reduction of ephedrine to be a viable synthesis for methamphetamine

the handbook of forensic drug analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs with chapters written by leading researchers in the field the book provides in depth up to date methods and results of forensic drug analyses this handbook discusses various forms of the drug as well as the origin and nature of samples it explains how to perform various tests the use of best practices and the analysis of results numerous forensic and chemical analytic techniques are covered including immunoassay gas chromatography and mass spectrometry topics range from the use of immunoassay technologies for drugs of abuse testing to methods of forensic analysis for cannabis hallucinogens cocaine opioids and amphetamine the book also looks at synthetic methods and law enforcement concerns regarding the manufacture of illicit drugs with an emphasis on clandestine methamphetamine production this handbook should serve as a widely used reference for forensic scientists toxicologists pharmacologists drug companies and professionals working in toxicology testing labs libraries and poison control centers it may also be used by chemists physicians and those in legal and regulatory professions and students of graduate courses in forensic science contributed to by leading scientists from around the world the only analysis book dedicated to illicit drugs of abuse comprehensive coverage of sampling methods and various forms of analysis

forensic investigation of clandestine laboratories second edition is fully updated to address all aspects of the forensic investigation of clandestine laboratories while the first edition focused on the domestic clandestine manufacture of contraband substances this edition expands the scope to more fully address the clandestine manufacture of explosives that have become a threat that is global in nature in clandestine laboratory operations equipment is often simple household chemical products are utilized and the education of the operators basic in fact most of the time these elements individually are perfectly legal to sell and possess however the combination of all these elements is what becomes the scene of illicit activity and a criminal operation in response to the increase in use of homemade explosive mixtures by terrorists both domestically and internationally the section clandestine manufacture of explosives is greatly enhanced topics are presented in a manner which while detailed will not compromise the tactics techniques or procedures utilized by law enforcement and military personnel in their ability to combat the clandestine manufacture of contraband substances and the battle against domestic and international terrorism key features examines tell tale signs to look for in recognizing a clandestine lab outlines how to safely process the site of a clandestine lab details how to analyze collected evidence in the examination laboratory provides guidelines as to what to derive from the physical evidence offers specific tactics to effectively present the opinions associated with evidence that has been collected during the investigation in a written report military style briefing or to a jury in a legal proceeding forensic investigation of clandestine laboratories second edition guides the reader through the process of recognizing these illegal manufacturing operations then it examines the methods as to how to compile the volume of associated evidence into a package that can be presented in a court of law or to military

commanders for decisive action it is an invaluable resource that will prove useful to chemistry lab technicians forensic investigators fire and first responder professionals military personnel police investigative agencies and narcotics units and lawyer trying cases involving clandestine labs

although many books exist on the subject of chiral chemistry they only briefly cover chiral synthesis and analysis as a minor part of a larger work to date there are none that pull together the background information and latest advances in one comprehensive reference work comprehensive chirality provides a complete overview of the field and includes chiral research relevant to synthesis analytic chemistry catalysis and pharmaceuticals the individual chapters in each of the 9 volumes provide an in depth review and collection of references on definition technology applications and a guide links to the related literature whether in an academic or corporate setting these chapters will form an invaluable resource for advanced students researchers new to an area and those who need further background or answers to a particular problem particularly in the development of drugs chirality research today is a central theme in chemistry and biology and is growing in importance across a number of disciplinary boundaries these studies do not always share a unique identifying factor or subject themselves to clear and concise definitions this work unites the different areas of research and allows anyone working or researching in chiral chemistry to navigate through the most essential concepts with ease saving them time and vastly improving their understanding the field of chirality counts several journals that are directly and indirectly concerned with the field there is no reference work that encompasses the entire field and unites the different areas of research through deep foundational reviews comprehensive chirality fills this vacuum and can be considered the definitive work it will help users apply context to the diverse journal literature offering and aid them in identifying areas for further research and or for solving problems chief editors hisashi yamamoto university of chicago and erick carreira eth zürich have assembled an impressive world class team of volume editors and contributing authors each chapter has been painstakingly reviewed and checked for consistent high quality the result is an authoritative overview which ties the literature together and provides the user with a reliable background information and citation resource

this book provides a broad reference covering important drugs of abuse including amphetamines opiates and steroids it also covers psychoactive plants such as caffeine peyote and psilocybin it provides chemical structures analytical methods clinical features and treatments of these drugs of abuse serving as a highly useful in depth supplement to a general medical toxicology book the style allows for the easy application of the contents to searchable databases and other electronic products making this an essential resource for practitioners in medical toxicology industrial hygiene occupational medicine pharmaceuticals environmental organizations pathology and related fields

this title is out of print as of 03 02 2005 a new revised and updated edition secrets of methamphetamine manufacture 7th edition will be available as of 03 08 2005

one common method of illicit methamphetamine manufacture utilizes an alkali metal typically lithium and liquid ammonia to chemically reduce ephedrine or pseudoephedrine to form methamphetamine this method is often referred to as the lithium ammonia reduction method or the birch reduction method while the hydroxyl group of ephedrine is more reactive than the

aromatic ring excess alkali metal and the presence of a proton source allow the formation of a cyclohexadiene byproduct not found in samples of methamphetamine produced from other manufacturing methods a sample enriched in this byproduct was generated and characterized using nuclear magnetic resonance nmr spectroscopy gas chromatography mass spectrometry gc ms infrared ir spectrophotometry and ultraviolet uv spectrophotometry the chemical structure of this byproduct was determined to be 1,4-cyclohexadienyl 2-methylaminopropane cmp

the growth in the use of amphetamine type stimulants ats has become a significant global problem over the last 10-15 years often involving new and unfamiliar ats and trafficking trends which present a challenge to both national law enforcement authorities and to scientists in drug testing forensic laboratories given the need for more accurate methods for identification and analysis this manual reflects the discussions and conclusions of a unodc consultative meeting held in london in september 1998

advances and major investments in the field of neuroscience can enhance traditional behavioral science approaches to training learning and other applications of value to the army neural behavioral indicators offer new ways to evaluate how well an individual trainee has assimilated mission critical knowledge and skills and can also be used to provide feedback on the readiness of soldiers for combat current methods for matching individual capabilities with the requirements for performing high value army assignments do not include neuropsychological psychophysiological neurochemical or neurogenetic components simple neuropsychological testing could greatly improve training success rates for these assignments opportunities in neuroscience for future army applications makes 17 recommendations that focus on utilizing current scientific research and development initiatives to improve performance and efficiency collaborating with pharmaceutical companies to employ neuropharmaceuticals for general sustainment or enhancement of soldier performance and improving cognitive and behavioral performance using interdisciplinary approaches and technological investments an essential guide for the army this book will also be of interest to other branches of military national security and intelligence agencies academic and commercial researchers pharmaceutical companies and others interested in applying the rapid advances in neuroscience to the performance of individual and group tasks

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