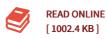# Analytical Assessment of e-Cigarettes: From Contents to Chemical and Particle Exposure Profiles (Paperback)

By Konstantinos E. Farsalinos, I. Gene Gillman, Stephen S. Hecht,

Elsevier Science Publishing Co Inc, United States, 2016. Paperback. Condition: New. Language: English. Brand new Book. A volume in the Emerging Issues in Analytical Chemistry series, Analytical Assessment of E-Cigarettes: From Contents to Chemical and Particle Exposure Profiles addresses the many issues surrounding electronic cigarettes in an unprecedented level of scientific detail. The plethora of product devices, formulations, and flavors, combined with the lack of industry standards and labeling requirements, quality control, and limited product oversight, has given rise to public concern about initiation of use and potential for adverse exposure and negative long-term health outcomes. This volume discusses how analytical methods can address these issues and support the manufacturing, labeling, distribution, testing, regulation, and monitoring for consistency of products with known chemical content and demonstrated performance characteristics. The book begins with the background on aerosol drug delivery services and e-cigarettes, constituents of nicotine-containing liquid dosing formulations, typical use scenarios and associated aerosol emissions, and chemical exposures and pharmacological and toxicological effect profiles, and then continues with descriptions of the analytical methods used to characterize the chemicals in formulations and emissions from e-cigarettes, including their stability, physical particle-size distribution and thermal degradation under commonly employed conditions of use. Analytical methods...

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