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| Altri autori (Persone) | CalvertJack G <1923-> (Jack George) |
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| Nota di contenuto | Cover; Contents; Acknowledgments; About the Authors; I: THE OXYGENATES: THEIR PROPERTIES, SOURCES, AND USE AS ALTERNATIVE FUELS; I-A: Roles of Oxygenates in Atmospheric Chemistry; I-B: Physical Properties of the Oxygenates; I-C: Sources of Oxygenates in the Troposphere; I-D: Ambient Concentrations of the Oxygenates in the Lower Troposphere; I-E: Use of Oxygenates as Fuels or Fuel Additives; I-F: Treatment of Kinetic Data and Estimation of Atmospheric Lifetimes of Oxygenates; II: RATE COEFFICIENTS AND MECHANISMS FOR THE ATMOSPHERIC OXIDATION OF THE ALCOHOLS; II-A: Introduction II-B: Acyclic AlcoholsII-C: Diols; II-D: Unsaturated Alcohols; II-E: Aromatic Alcohols; II-F: Halogen-Substituted Alcohols; II-G: Hydroperoxides and Peroxides; III: RATE COEFFICIENTS AND MECHANISMS FOR THE ATMOSPHERIC OXIDATION OF THE ETHERS; III-A: Introduction; III-B: Acyclic Ethers; III-C: Multi-Functional Ethers; III-D: Unsaturated Ethers; III-E: Cyclic Ethers; III-F: Aromatic Ethers; III-G: Halogen-Substituted Ethers; III-H: Rate Coefficient Correlations and |

Structure-Activity Relationships (SARs); IV: RATE COEFFICIENTS AND MECHANISMS FOR THE ATMOSPHERIC OXIDATION OF THE ALDEHYDES IV-A: Introduction IV-B: Acyclic Aldehydes; IV-C: Hydroxyaldehydes; IV-E: Unsaturated Aldehydes; IV-F: Derived from Atmospheric Oxidation of the Aromatic and Biogenic Hydrocarbons; IV-G: Halogen-Substituted Aldehydes; V: RATE COEFFICIENTS AND MECHANISMS FOR THE ATMOSPHERIC OXIDATION OF THE KETONES; V-A: Introduction; V-B: Alkanones; V-C: Hydroxyketones; V-D: Diketones; V-E: Unsaturated Ketones; V-F: Cyclic Ketones; V-G: Ketones Derived from Biogenic Hydrocarbons; V-H: Halogen-Substituted Ketones; VI: RATE COEFFICIENTS AND MECHANISMS FOR THE ATMOSPHERIC OXIDATION OF THE ORGANIC ACIDS VI-A: Introduction VI-B: Acyclic Organic Acids; VI-C: Dibasic Organic Acids; VI-D: Unsaturated Organic Acids; VI-E: Keto-Acids; VI-F: Organic Acids Derived from Aromatic Compounds and from Terpenes; VI-G: Halogen-Substituted Organic Acids; VI-H: Acid Anhydrides; VII: RATE COEFFICIENTS AND MECHANISMS OF ATMOSPHERIC OXIDATION OF THE ESTERS; VII-A: Introduction; VII-B: Acyclic, Saturated Monofunctional Esters; VII-C: Difunctional Esters; VII-D: Cyclic Esters (Lactones); VII-E: Unsaturated Esters; VII-F: Aromatic Esters; VII-G: Carbonates; VII-H: Lactates; VII-I: Halogen-Substituted Esters VIII: RATE COEFFICIENTS AND MECHANISMS FOR THE ATMOSPHERIC OXIDATION OF THE N-ATOM-CONTAINING OXYGENATES VIII-A: Introduction; VIII-B: Amides; VIII-C: Amino Alcohols; VIII-D: Alkyl Nitrates; VIII-E: Saturated Dinitrates; VIII-F: Unsaturated Dinitrates; VIII-G: Hydroxyalkyl Nitrates; VIII-H: Carbonyl Nitrates; VIII-I: Alkyl Nitrites; VIII-J: Nitroalkanes; VIII-K: Nitroalkenes; VIII-L: Nitroaromatics and Nitroarenes; VIII-M: Peroxyacyl Nitrates; VIII-N: N,N-Dimethylnitrosamine and N,N-Dimethylnitramine; IX: MECHANISMS OF PHOTODECOMPOSITION OF THE SUNLIGHT-ABSORBING OXYGENATES; IX-A: Introduction IX-B: Mechanisms of Photodecomposition of the Acyclic Aldehydes

Sommario/riassunto

Prepared by an international team of eminent atmospheric scientists, this text is an authoritative source of information on the role of oxygenates in the chemistry of the atmosphere.

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| 2. Record Nr. | UNISALENT0991000072049707536 |
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