

Arene oxides, K-Region Oxides and Epoxides Reactions

145. G.J. Kasperek and T.C. Bruice. The Mechanism of the Aromatization of Arene Oxides. *J. Am. Chem. Soc.* **1972**, *94*, 198.
151. H. Yagi; D.M. Jerina; G.J. Kasperek and T.C. Bruice. A Novel Mechanism for the NIH-Shift. (1,4-dimethylbenzene oxide isomerization/kinetic analysis/nonenzymatic additions/ microsomal oxidation/carcinogenesis). *Proc. Natl. Acad. Sci. (USA)* **1972**, *69*, 1985.
154. G.J. Kasperek and T.C. Bruice. Differentiation Between the Concerted and Stepwise Mechanisms for Aromatization (NIH- Shift) of Arene Epoxides. *J. Chem. Soc. Chem. Commun.* **1972**, *13*, 784-5.
158. G.J. Kasperek; T.C. Bruice; H. Yagi; N. Kaubisch and D.M. Jerina. Solvolytic Chemistry of 1,4-dimethylbenzene Oxide. A New and Novel Mechanism for the NIH-Shift. *J. Am. Chem. Soc.* **1972**, *94*, 7876.
164. P.Y. Bruice; G.J. Kasperek; T.C. Bruice; H. Yagi and D.M. Jerina. The Oxygen Walk as a Complementary Observation to the NIH Shift. *J. Am. Chem. Soc.* **1973**, *95*, 1673.
170. G.J. Kasperek; P.Y. Bruice; T.C. Bruice; H. Yagi and D.M. Jerina. Multiple Pathways for Aromatization of 8,9-Indan Oxide. *J. Am. Chem. Soc.* **1973**, *95*, 6041.
176. D.M.E. Reuben and T.C. Bruice. Relative Nucleophilicity of Thiols and Glutathione Towards Benzene Oxide. *J. Chem. Soc. Chem. Commun.* **1974**, *3*, 113-14.
181. J.D. Richardson,; T.C. Bruice; S.M. Waraszkiewicz and G.A. Berchtold. Aromatization of 4-Carboxybenzene Oxide. *J. Org. Chem.* **1974**, *39*, 2088.
187. P.Y. Bruice; T.C. Bruice; H.G. Selander; H. Yagi and D.M. Jerina. Comparative Mechanisms of Reaction of K-Region and Non-K- Region Arene Oxides of Phenanthrene. *J. Am. Chem. Soc.* **1974**, *96*, 6814.
196. D.M. Johnson and T.C. Bruice. Nucleophilic Catalysis of the Aromatization of an Arene Oxide. The Reaction of Trimethylamine with 4-Carbo-tert-butoxybenzene Oxide. *J. Am. Chem. Soc.* **1975**, *97*, 6901.
197. D.M.E. Reuben and T.C. Bruice. Reaction of Thiol Anions with Benzene Oxide and Malachite Green. *J. Am. Chem. Soc.* **1976**, *98*, 114.
199. P.Y. Bruice; T.C. Bruice; P.M. Dansette; H.G. Selander; H. Yagi and D.M. Jerina. Comparison of the Mechanisms of Solvolysis and Rearrangement of K-Region vs. Non-K-Region Arene Oxides of Phenanthrene. Comparative Solvolytic Rate Constants of K- Region and Non-K-Region Arene Oxides. *J. Am. Chem. Soc.* **1976**, *98*, 2965.
200. P.Y. Bruice; T.C. Bruice; H. Yagi and D.M. Jerina. Nucleophilic Displacement on the Arene Oxides of Phenanthrene. *J. Am. Chem. Soc.* **1976**, *98*, 2973.
201. P.Y. Bruice and T.C. Bruice. Modes of Acid Catalysis in the Aromatization of Arene Oxides. *J. Am. Chem. Soc.* **1976**, *98*, 2023.

208. T.C. Bruice and P.Y. Bruice. Solution Chemistry of Arene Oxides. *Acc. Chem. Res.* **1976**, *9*, 378.
226. P.Y. Bruice; S.C. Wilson and T.C. Bruice. Inactivation of Glyceraldehyde-3-phosphate Dehydrogenase and Yeast Alcohol Dehydrogenase by Arene Oxides. *Biochem.* **1978**, *17*, 1662.
227. A.R. Becker; J.M. Janusz; D.Z. Rogers and T.C. Bruice. Structural Features Which Determine the Carcinogenesis, Mutagenesis and the Rates of Acid- and Water-Mediated Solvolysis of and Nucleophilic Attack upon Diol Epoxides, Bay-Region and Non- Bay-Region Tetrahydro Epoxides, and K-Region and Non-K- Region Arene Oxides. *J. Am. Chem. Soc.* **1978**, *100*, 3244.
233. J.M. Janusz; A.R. Becker and T.C. Bruice. The Importance of Intramolecular Hydrogen Bonding on the Reactivity of Tetrahydro Diol Epoxides. *J. Am. Chem. Soc.* **1978**, *100*, 8269.
237. D.Z. Rogers and T.C. Bruice. Comparative Chemistry of the Bay- and Non-Bay-Region Tetrahydro Epoxides of Phenanthrene. *J. Am. Chem. Soc.* **1979**, *101*, 4713.
240. A.R. Becker; J.M. Janusz and T.C. Bruice. Solution Chemistry of the syn- and anti-Tetrahydrodiol Epoxides, The syn- and anti- Tetrahydromethoxy Epoxides, and the 1,2- and 1,4- Tetrahydro Epoxides of Naphthalene. *J. Am. Chem. Soc.* **1979**, *101*, 5679.