Additions and Corrections

1962, Volume 84

Leon M. Stock and Frank W. Baker: Rates and Isomer Distributions in the Non-catalytic Chlorination of the Halobenzenes and Certain Halotoluenes in Aqueous Acetic Acid. Partial Rate Factors for the Halogenation of the Halobenzenes.

Pages 1663 and 1664. In Tables V and VI, the value for p_f^{Br} should be 0.27.—LEON M. STOCK.

1964, Volume 86

K. Mislow, M. A. W. Glass, Harvey B. Hopps, Edward Simon, and George H. Wahl, Jr.: The Stereochemistry of Doubly Bridged Biphenyls: Synthesis, Spectral Properties, and Optical Stability.

Page 1719. The fourth entry in column 6 of Table IX should read 6.62; 6.71^g not 6.62; 6.17^g.—G. H. WAHL, JR.

F. G. Bordwell and W. T. Brannen, Jr.: The Effect of the Carbonyl and Related Groups on the Reactivity of Halides in S_N2 Reactions.

Page 4648. A check (by J. M. Williams) of the calculations of activation entropies has revealed the following corrections:

Table II: entry 4, change −20 to −24
entry 5, change −21 to −24
entry 11, change −24 to −20
entry 22, change −25 to −21
entry 24, change −8 to −12

Table VII: entry 1, change −12 to −20
entry 2, change −17 to −25
entry 3, change −15 to −23
entry 4, change −30 to −36

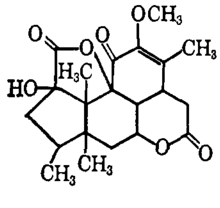
Page 4649. The correct equation for calculating $-S^*$ is

$$-S^* = 2.303R \times \left[\log k - \log T - 10.7531 + \frac{E_a}{2.303RT}\right]$$

F. G. BORDWELL.

W. H. Starnes, Jr.: Concurrent Carbon-to-Oxygen Rearrangement, Cyclization, and Decarboxylation in the Reaction of 3,3,3-Triarylpropionic Acids with Lead Tetraacetate.

Page 5606. In column 1, structure XVI should be



W. H. STARNES, JR.

1965, Volume 87

G. W. Everett, Jr., and R. H. Holm: The Synthesis and Proton Resonance Study of the Solution Equilibria of Bis(β-ketoamino)-nickel(II) Complexes.

Page 2117. In the Abstract, line 3, $Ni[R_\gamma COCH(NHR)R_\alpha]_2$ should read $Ni[R_\gamma COCHC(NR)R_\alpha]_2$.

Page 2123. In column 1, line 17, the word "much" should be changed to "must." In column 1, line 21, the word "lowest" should be changed to "highest." In column 2, line 1, 2.669α should read 2.267α.

Page 2124. In ref 41 the volume number should be changed from **38** to **39**.—RICHARD H. HOLM.

G. E. Wilson, Jr.: Sulfonium Salts. I. Fragmentations of Chlorosulfonium Chlorides. A Route to 1,4-Oxathienes.

Page 3786. In column 1, fourth paragraph, the values for the nmr resonances of 2-methyl-1,4-oxathiene should read 1.72, 4.56, 2.76, and 4.17 ppm.—G. EDWIN WILSON, JR.

John E. Gordon: Fused Organic Salts. IV. Characterization of Low-Melting Quaternary Ammonium Salts. Phase Equilibria for Salt-Salt and Salt-Nonelectrolyte Systems. Properties of the Liquid Salt Medium.

Page 4352. In Table VIA, column 1, next-to-last entry, for "Diethylbenzalmalonate" read "Ethyl benzalcyanoacetate."—JOHN GORDON.

Hiroshi Tanida and Ryonosuke Muneyuki: Relative Reactivities of Some Benzocyclenes in Aromatic Nitration and Electrophilic Side-Chain Reaction. A Remarkable Effect of the Bicyclo[2.2.1]-heptene System.

Page 4795. In column 1, line 12, "nucleophilic" should be corrected to "electrophilic."

Page 4799. Below formula VIII, the following was inadvertently omitted.

a, $n = 5$; $R^1 = R^2 = H$
b, $n = 6$; $R^1 = R^2 = H$
c, $n = 5$; $R^1 = CH_3$; $R^2 = H$
d, $n = 6$; $R^1 = CH_3$; $R^2 = H$
e, $n = 7$; $R^1 = R^2 = H$

Page 4800. In column 2, line 6, "nucleophilic" should be corrected to "electrophilic."—H. TANIDA.

T. S. Sorensen: The Preparation and Reactions of a Homologous Series of Aliphatic Polyenylic Cations.

Page 5080. In column 1, third line from the bottom, the formula should read $\lambda_{max} = 319.5 + 76.5n$ mμ.—T. S. SORENSEN.

William S. Johnson, Pedro J. Neustaedter, and Klaus K. Schmiegel: Olefinic Cyclizations. VIII. The Butenylmethylcyclohexenol System.

Page 5152. In column 1, line 18, change the remainder of the sentence to read "except that between the two saponification treatments (see above) there was an additional treatment with 7.5 g. of sodium hydroxide in 100 ml. of water for 1.5 hr. at room temperature, after which saponification was still incomplete."—WILLIAM S. JOHNSON.

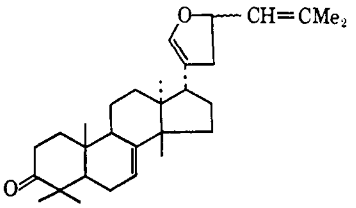
Robert C. Fahey and Christine Schubert: Polar Additions to Olefins. I. The Chlorination of 2-Butene and 1-Phenylpropene.

Page 5172. In column 2, line 16, τ 4.02 and 3.69 should read τ 4.05 and 3.91.

Page 5177. In Table III, τ values for III should read 2.71 and 4.05 instead of 2.68 and 4.02, and τ values for IV should read 2.4–2.9 and 3.91 instead of 2.2–2.7 and 3.69.—ROBERT C. FAHEY.

K. E. Pfitzner and J. G. Moffatt: Sulfoxide–Carbodiimide Reactions. II. Scope of the Oxidation Reaction.

Page 5674. Structure XXVI is incorrect and should be



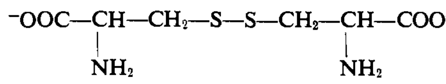
XXVI

JOHN G. MOFFATT.

1966, Volume 88

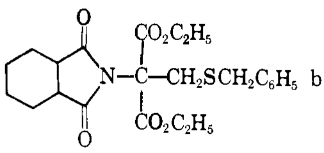
Eugene Stephen Wagner and Robert Earl Davis: Displacement Reactions. IX. The Reaction of Cyanide Ion with Cystine. An Example of Amino Group Participation as Detected with Nitrogen-15 during Cleavage of a Sulfur–Sulfur Bond.

Page 7. In eq 4, structure V should be

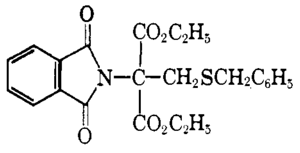


$$^{-}OOC\text{—}\underset{NH_2}{CH}\text{—}CH_2\text{—}S\text{—}S\text{—}CH_2\text{—}\underset{NH_2}{CH}\text{—}COO^{-}$$

Page 9. In Chart I, replace



by



Page 9. In Table III, read *dl*-Cystine instead of 1-Cystine.

Page 10. In the second column, 12 lines up from the bottom, read b.p. 70–72° (5 mm.).

Page 11. In the first column, line 4, the name "benzylthiolmethyl chloride" was given to this compound by Professor V. du Vigneaud. While it is not the IUPAC name, there is no confusion as to the structure.

Page 11. In the first column, 5 lines up from the bottom, this ester is discussed by Wood and du Vigneaud in our footnote 22.

Page 11. In the first column, 17 lines up from the bottom, read 25.70 g. (0.0842 mole).

Page 11. In the second column, line 20, read S-Benzylcysteine.

Page 11. In the second column, line 42, read (1.62 g., 0.00767 mole).

Page 11. In the second column, line 46, read ammonium chloride.

Page 11. In the second column, line 51, read alkaline to.

Page 12. In the second column, line 21, read *dl*-cystine and *dl*-cystine-N^{15}.

Page 12. In the second column, line 23, read *dl*-cystine.—R. E. DAVIS.

Julian R. Little and Paul F. Hartman: Photochemical Initiation of Radical-Chain Addition of Phosphorus Trichloride to Olefins.

Page 98. In column 2, change the equation $dM/dS = 1/(C_s) + 1$ to $dM/dS = 1 + [M]/C_s[S]$.—JULIAN R. LITTLE.

Emil H. White, Günther E. Maier, Rolf Graeve, Ulrich Zirngibl, and Earl W. Friend: The Synthesis and Properties of Diphenylcyclopropenyldiazomethane, and a Structural Reassignment for the So-called Diphenyltetrahedrane.

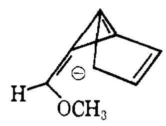
Page 612. Add the following acknowledgment: We thank the Petroleum Research Fund of the American Chemical Society (Grant 328-A1) for its support in this work.—EARL W. FRIEND, JR.

Mark M. Green, Michael Axelrod, and Kurt Mislow: Configurational Correlation of Alcohols by Asymmetric Synthesis of Sulfinate Esters.

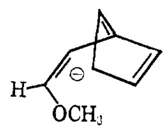
Page 861. The first entry in Table I should read (−)-menthol rather than (−)-methanol.—KURT MISLOW.

Hiroshi Tanida, Teruji Tsuji, and Tadashi Irie: Methanolysis of 7-Chloronorbornadiene under Alkaline Conditions. Evidence for the Formation of a Labile Tricyclic Intermediate.

Page 865. Change the structure



to



H. TANIDA.

William A. Pryor, J. T. Echols, Jr., and Kennedy Smith: Rates of the Reactions of Substituted Phenyl Radicals with Hydrogen Donors.

Page 1189. The first formula at the top of the right-hand column should have C(inserted after N=N, *i.e.*, $\text{—N=NC}(C_6H_5)_3$.

Page 1191. In the third line below the equation in footnote 10, d(NAT)/ − d*t* should read −d(NAT)/d*t*.

Page 1193. There are seven values listed for cyclohexane (in about the middle of the page). The last two should read "Cyclohexene (3)."

Page 1196. The eighth line in the second paragraph in the left-hand column should read "...14.5% *at* infinite dilution."

Page 1197. In the right-hand column the plus sign is omitted from the top equation: $\text{Ar}\cdot + \text{HS} \rightarrow$. Also the spacing does not clearly indicate the species involved; *e.g.*, the corrected form for Ib is $\text{Ar:}^{-}\ \dot{H}^{+}$ S, and Ic, IIb, and IIc can be corrected similarly.

Page 1198. In the sixth line of the first full paragraph in the left-hand column, the slash-line is omitted: "...the spread in the k_H/k_{Cl} values...."

Page 1198. The lower of the two equations at the bottom of the left-hand column should read: $\log k/k_0 = 0.437\sigma^{+} + 0.0034$.

The word Pryor is misspelled in all the running titles.—WILLIAM A. PRYOR.

William A. Pryor, Richard W. Henderson, Robert A. Patsiga, and N. Carroll: Hydrogen Secondary Isotope Effects on the Radical Polymerization of Styrene.

Page 1202. The sentence between eq 5 and eq 6 should read: "....Under conditions where the rate of initiation by AIBN is...."

Page 1202. The equation in the text just above eq 6 has f omitted. It should read $R_i = 2k_d f(\text{AIBN})$.

Page 1204. The caption for the structures at the top of the second column has been run into the last sentence at the bottom of column 1. Change the last sentence in column 1 to "The isotope effect...can then be assigned."

Page 1204. The structures at the top of the right-hand column should have the caption "Inverse isotope effects (per atom)."

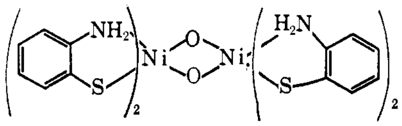
The word Pryor is misspelled in the running titles.—WILLIAM A. PRYOR.

James H. Brewster and James E. Privett: The Absolute Configuration of an Axially Dissymmetric Compound. (*S*)-(+)-1-Benzylidene-4-methylcyclohexane.

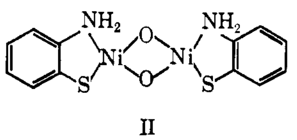
Page 1419. Footnote 1 should read: A Useful Model of Optical Activity, part VI; for part V, see J. H. Brewster, *Tetrahedron*, **13**, 106 (1961). Hydrogenolyses with Chloroaluminum Hydrides, part V; for part IV, see J. H. Brewster, S. F. Osman, H. O. Bayer, and H. B. Hopps, *J. Org. Chem.*, **29**, 121 (1964).—J. H. BREWSTER.

L. F. Larkworthy, J. M. Murphy, and D. J. Phillips: So-called Planar, Low-Spin Bis (*o*-aminobenzenethiol)cobalt(II).

Page 1570. Formula II should be



instead of



II

D. J. PHILLIPS.

Fred Basolo, William H. Baddley, and Kevin J. Weidenbaum: Intermolecular Isomerization of a Thiocyanatopalladium(II) Complex to Its Isothiocyanato Linkage Isomer.

Page 1577. The following corrections in Table I should be made.

Reaction	ΔH^*, kcal/mole	ΔS^*, eu,
Pd-SCN → Pd-NCS (1)	16.2 ± 0.5	-19.6 ± 1.0
Pd-SCN → Pd-Br (2)	16.2 ± 0.5	-19.6 ± 1.0
Pd-NCS → Pd-Br (3)	18.4 ± 0.5	-13.7 ± 1.0

F. Basolo.

Carlyle B. Storm, Alsoph H. Corwin, Roberto R. Arellano, Mark Martz, and Ronald Weintraub: Stability Constants of Magnesium Porphyrin—Pyridine Complexes. Solvent and Substituent Effects.

Page 2526. The caption for Figure 1 is: The spectrum of magnesium deuteroporphyrin IX dimethyl ester in pyridine. The wavelength is in mμ: visible portion 5.23×10^{-5} *M* in magnesium porphyrin; Soret portion 1.99×10^{-6} *M* in magnesium porphyrin. The caption for Figure 2 is: The spectrum of magnesium deuteroporphyrin IX dimethyl ester in 2,6-lutidine. The wavelength is in mμ: visible portion 5.98×10^{-5} *M* in magnesium porphyrin, Soret portion 2.39×10^{-6} *M* in magnesium porphyrin.

Page 2527. The caption for Figure 3 is: A plot of $C_p\epsilon_{11}/OD_{11}$ *vs.* $1/C_L$ for the magnesium porphyrin–pyridine complexes in 2,6-lutidine. The numbers refer to the compounds in Table II.

Page 2530. A plot of $(a + b)(\nu_0 - \nu_{PL})$ *vs.* b for magnesium protoporphyrin IX dimethyl ester and magnesium tetraphenylporphin in chloroform-*d*–pyridine solution.—Carlyle B. Storm.

Reed M. Izatt, J. Howard Rytting, Lee D. Hansen, and James J. Christensen: Thermodynamics of Proton Dissociation in Dilute Aqueous Solution. V. An Entropy Titration Study of Adenosine, Pentoses, Hexoses, and Related Compounds.

Page 2643. In Table I the first column heading should read "mmoles" instead of "mmoles $\times 10^3$."

Page 2644. Adenosine is misplaced in Table II. Its ionization is not of the type $HA^{2-} = H^+ + A^{3-}$, but rather of the type $HA = H^+ + A^-$.—Reed M. Izatt.

Hsi-Lin Jin Chen and M. Bersohn: The Structure of the Solvent Shells of Electrons. I. Hexamethylphosphoramide.

Page 2663. Professor S. I. Weissman and Dr. D. W. Moore have kindly pointed out that the spectrum discussed in this article with *g* value 2.0027 is identical with that of the naphthalene anion. We conclude that this species is in fact the naphthalene anion, generated from naphthalene, present as an impurity in a concentration too low to be detectable by ultraviolet spectroscopy.—Malcolm Bersohn.

Don C. DeJongh and Stephen Hanessian: Characterization of Deoxy Sugars by Mass Spectrometry.

Page 3116. In the right-hand column, the middle of the first paragraph should read: "Amicetose,[39] 2,3,6-trideoxy-D-*erythro*-hexose,[45] is a component of the antibiotic amicetin.[39-42] The deoxy sugar components of the antibiotics rhodomycin[43] and streptolydigin[44] have been shown to be 2,3,6-trideoxy-L-*threo*-hexoses.[45]"—Don C. DeJongh.

Laszlo Polgar and Myron L. Bender: A New Enzyme Containing a Synthetically Formed Active Site. Thiol-Subtilisin.

Page 3153. In Table I, under the heading Subtilisin, the number of thiol groups/molecule using titration with *p*-chloromercuribenzoate ion should be <0.1 rather than <1.0.—Myron L. Bender.

T. A. Khwaja and C. B. Reese: *o*-Phenylene Phosphorochloridate. A Convenient Phosphorylating Agent.

Page 3447. The name of T. A. Khwaja was misspelled as Khawaja.—C. B. Reese.

Hiroshi Tanida and Hiroyuki Ishitobi: Acetolysis of 6,7-Dimethoxy-*anti*-9-benzonorbornenyl *p*-Bromobenzenesulfonate. Evidence for a Symmetrical Transition State.

Page 3664. In column 3 of Table I, line 2, the rate constant at 38.00° should be 6.45×10^{-4}, not $\times 10^{-5}$.—H. Tanida.

Peter Kovacic and Joseph F. Gormish: Amination of Haloaromatics with Trichloramine–Aluminum Chloride. σ Substitution and Nucleophilic σ Substitution.

Page 3824. In the second column, line 9, the heading "From 3-Fluoro-5-methylaniline" should refer to the following footnote: "We are grateful to Professor Lester Friedman and Mr. Paul Caruso for this procedure."—Peter Kovacic.

Joseph J. Mrowca and Thomas J. Katz: Catalysis of a Cycloaddition Reaction by Rhodium on Carbon.

Page 4013. Footnote 7 should have read: J. C. Carnahan, Jr., repeating the dimerization with bis-acrylonitrilenickel,[5d] found I and II,[5e] not I and V. Stone[5f] compared his V with Schrauzer's, Schrauzer[5d] his with Cookson's.—Thomas J. Katz.

S. Teitel and A. Brossi: Synthesis in the Emetine Series. XIII. Structure and Synthesis of Psychotrine and 6′-O-Methyl-7′-desmethylpsychotrine.

Page 4070. In column 1, line 2, for "nautral" read "natural."

Page 4070. In column 2, line 45, under the heading "6′-O-Methyl-7′-desmethylpsychotrine (XIII)," for "X" read "XII."—S. Teitel.

D. E. Young, G. E. McAchran, and S. G. Shore: Boron Heterocycles. III. The Effect of Borane Lewis Acid on Apparent Base Strength. New Examples of Base Strength Reversal.

Page 4392. The third entry in Table II which reads $\underline{\mathrm{SCH_2CH_2S}}\mathrm{BHP(CH_3)_3}$ should be changed to read $\underline{\mathrm{SCH_2CH_2S}}\mathrm{BHN(CH_3)_3}$.—David E. Young.

Sidney D. Ross, Manuel Finkelstein, and Raymond C. Petersen: Anodic Oxidations. III. The Reaction Mechanism in the Electrochemical Acetoxylation of N,N-Dimethylamides.

Page 4659. In the caption of Figure 4, the word "ethanol" should be "acetic acid."—Sidney D. Ross.