Additions and Corrections

Vol. 9, 1944

M. S. Newman and R. Rosher (revision by T. B. Patrick and M. S. Newman): The Dehydration of 3-Hydroxy-3,4,4-trimethylpentanoic Acid.

Page 221. Reexamination of the lactone II by nmr shows that it is $\beta,\beta,\gamma,\gamma$-tetramethyl-$\gamma$-butyrolactone rather than 8-*t*-butyl-γ-butyrolactone. The structure of the unsaturated acid, mp 85°, however, was confirmed as III.

The spectrum of II shows a singlet at τ 8.97 (6 H, β-methyls), a singlet at 8.73 (6 H, γ-methyls), and a singlet at 7.60 (α hydrogens). The spectrum of the acid III (stereochemistry unknown) shows a singlet at τ 8.88 (9 H, γ-methyls), a singlet at 7.82 (slight coupling, 3 H, β-methyl), a singlet at 4.23 (slight coupling, 1 H, vinyl hydrogen), and a singlet at -0.08 (1 H, acid hydrogen).

The compound resulting from treatment of the lactone with phenylmagnesium bromide is not 2,2-diphenyl-4-*t*-butyltetrahydrofuran but 2,2,3,3-(tetramethyl)-5,5-diphenyltetrahydrofuran as shown by the nmr spectrum: a singlet at τ 9.13 (6 H, 2-methyls), a singlet at 8.97 (6 H, 2-methyls), a singlet at 7.24 (2 H, methylene group), and a complex at 2.32–3.05 (10 H, aromatic hydrogens).

Vol. 29, 1964

Charles A. Kingsbury: The Mechanism of Dimethyl Sulfoxide Catalysis in Nucleophilic Displacement.

Page 3265. The nmr assignments tentatively ascribed to the nucleophilic addition complex are incorrect, and the discussion of this complex is hereby withdrawn.

Vol. 31, 1966

Toshio Hayashi: Studies on Geometric Isomerism by Nuclear Magnetic Resonance. III. Stereochemistry of α-Cyanocinnamic Esters.

Page 3253. Column 2, under Results and Discussion, line 2. "Table I and II" should read "Tables I and III."

Page 3254. Table I. The configuration of VIII "*cis*" should read "*trans*." Column 2, Table II. The chemical-shift difference of H_β, "0.64," should read "0.74." Column 2, line 8 from the bottom. "Table II" should read "Table III."

Page 3256. Table III. The chemical-shift difference of XIII, XV, XIX, and XX in the $COOCH_3$ group (Δ), "0.25," "0.30," "0.23," and "0.27," should read "0.21," "0.24," "0.20," and "0.24," respectively.

Page 3258. Table V. In the line of compound VIII.

"153–154 $C_{12}H_{10}N_2O_4$ 58.53 58.67 4.09 4.16 11.38 11.14"

should read

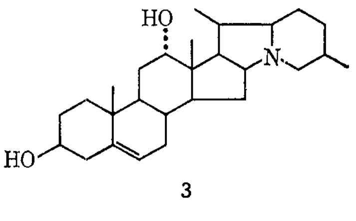
"173–174 $C_{11}H_8N_2O_4$ 56.90 57.21 3.47 3.66 12.07 11.75"

The configuration of XXII, "*trans*" should read "*cis*."

Vol. 32, 1967

Robert T. Blickenstaff and Kanit Kongsamut: Oxidation of Steroid Digitonides.

Page 1652. Formulas **3** and **4** should be as follows.



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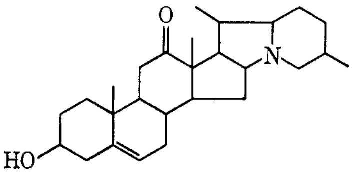

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H. Kwart and D. P. Hoster: Separation of an Enantiomorph and Its Racemate by Sublimation.

Page 1867. Although the significance of our finding that an enantiomorph of α-ethylbenzyl phenyl sulfide can be sublimed free of its racemate is unaltered by this fact, we have recently become aware that our observation of an unexplained concentration dependence of the optical rotation in ethanol (alone) is not correct. We thank Dr. F. D. Saeva, Department of Chemistry, Princeton University, for the following data which show that $[\alpha]_D$ is essentially independent of concentration in the range *C* 0.20–2.0.

Sample no.	Concn, g/100 ml	Obsd rotation, deg	Path length, dm	Temp, °C	$[\alpha]_D$, deg
1[a]	0.194	−0.13	2	20	−34
	2.424	−1.62	2	20	−33.4
2[b]	0.207	−0.019	1	27	−9.2
	2.069	−0.195	1	27	−9.50

[a] Measurements were performed on a Schmidt and Haensch visual polarimeter. [b] Measurements were performed on a Cary 60 spectropolarimeter.

J. Eric Nordlander and Walter J. Kelly: Partial Acetolysis of Neopentyl Tosylate-sulfonyl-^{18}O. An Attempt to Trap Neopentyl Cation.

Page 4123. The kinetics treatment of the isotope-distribution data is partly in error. The calculation in the left column of p 4123 is correct, although the final value for the fraction of ROTs ionized should be retained as 0.67853 rather than rounded off to 0.68 as shown.

The calculation in the right column of p 4123 should be replaced with the following:

for the net solvolysis

$$\ln \frac{[\mathrm{ROTs}]_0}{[\mathrm{ROTs}]} = k_t t = k_1 \left(\frac{k_2}{k_{-1} + k_2}\right) t$$

while for the ionization process

$$\ln \frac{[\mathrm{ROTs}]_0}{[\text{previously un-ionized ROTs}]} = k_1 t$$

Dividing the first of these equations by the second for a common reaction time, *t*, gives

$$\log \frac{[\mathrm{ROTs}]_0}{[\mathrm{ROTs}]} \Big/ \log \frac{[\mathrm{ROTs}]_0}{[\text{previously un-ionized ROTs}]} = \frac{k_2}{k_{-1} + k_2}$$

Thus, from the present results

$$\log \frac{1.00000}{0.33000} \Big/ \log \frac{1.00000}{0.32147} = \frac{k_2}{k_{-1} + k_2}$$

whence $k_2/k_{-1} = 42$ as a lower limit. The paper's conclusion are otherwise unaltered.

Vol. 33, 1968

C. Kingsbury: Conformational Preference in Diastereomers. III. Addition Products from Unsaturated Nitriles.

Page 1129: Figure 4. A seven-membered ring was inadvertently shown instead of a six-membered ring.

Wayne I. Fanta and William F. Erman: Total Synthesis of *dl*-Sabinene, *dl-trans*-Sabinene Hydrate, and Related Monoterpenes.

Page 1656. We wish to call attention to the work of Professor R. Nicoletti and L. Baiocchi [*Ann. Chim.* (Rome), **51,** 1265 (1961); *Chem. Abstr.,* **56,** 13027 (1962)] on the isolation of *cis*-sabinene hydrate from Marjoram essential oil. We were unaware of this effort at the time of publication of our paper.

Ruth F. Nutt, Mary J. Dickinson, Frederick W. Holly, and Edward Walton: Branched-Chain Sugar Nucleosides. III. 3′-*C*-Methyladenosine.

Page 1795. We thank Dr. Shigeharu Inouye for calling our attention to the fact that lines 7, 8, 9 and 10 in column 1 should read "$\tau^{\mathrm{CDCl_3}}$ (α-**19**) 3.07 (d, C-1 H), 4.63 (d, C-2 H, $J_{1,2}$ = 4.5 cps), 8.08 S (C-3 CH_3); (β-**19**) 3.55 (d, C-1 H), 3.78 (d, C-2 H, $J_{1,2}$ = 1.0 cps)...." Footnote 28, lines 4 and 5 should read "$\tau^{\mathrm{CDCl_3}}$ (α-**20**) 3.31 (d, C-1 H), 4.28 (d, C-2 H, $J_{1,2}$ = 5.0 cps); (β-**20**) 3.62 (d, C-1 H), 4.14 (d, C-2 H, $J_{1,2}$ = 1.5 cps)."

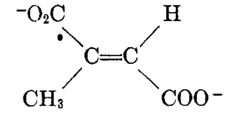
Susan R. Jenkins, Byron Arison, and Edward Walton: Branched-Chain Sugar Nucleosides. IV. 2′-*C*-Methyladenosine.

Page 2493, column 1, line 15. "$-79°$" should read "$+121°$."

C. Kingsbury: "Direct Observation of Reaction Intermediates in Debromodecarboxylation Reactions.

Page 3247. Equation 5. A subscript 2 was omitted from the first two structures.

Page 3250. The structure of mesaconic acid should have been given as



D. C. Best and C. Kingsbury: Conformational Preferences in Diastereomers. IV. 1,2,3 Diastereomers.

Page 3252. In the bromination of the *cis*- and *trans*-1,3-diphenyl-1-butenes, **3**, to form the dibromides **4–7**, Professor P. S. Skell of Pennsylvania State University has pointed out that free-radical bromination could be competitive with the ionic mechanism shown. We concur, and this possibility should have been indicated in the original paper.

M. J. Kornet, P. A. Thio, and S. I. Tan: The Borane Reduction of Amido Esters.

Page 3637. Add footnote 6a after paragraph 2.

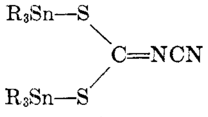
(6a) NOTE ADDED IN PROOF.—It has been called to our attention that the borane reduction of ethyl N-acetyl β-phenylalanate has been described [S. Corsano and F. Bombardiere, *Ann. Chim.* (Rome), **54,** 650 (1964)].

J. R. Edman and H. E. Simmons: Bicyclo[2.2.1]hepta-2,5-diene-2,3-dicarboxylic Anhydride.

Page 3815. Column 1, Experimental Section, paragraph 2. Line 5 should read "heptadiene-2,3-dicarboxylic acid.[3]" Paragraph 8. Line 1 should read "1,4,4A,5,8,8A-."

Raymond Seltzer: The Reactions of Organotin Chlorides with the Cyanodithioimidocarbonate Anion.

Page 3896. Correct structure **7** appears below.



7

Page 3897. Section B, first equation. "[R = $(C_6H_5)_3Sn$?]" should read "(R = C_6H_5?)." Second equation. "[R = (n-$C_4H_9)_3Sn$?]" should read "[R = n-C_4H_9?]."

J. W. Larson and L. G. Hepler: Substituent Effects and Thermodynamic Consequences of Linear Free-Energy Relations.

Page 3962. Equation 17 should read as follows.

$$\Delta C_p° = \Delta S° \left(\frac{\partial\beta}{\partial T} - 1\right) \Big/ \left(1 - \frac{\beta}{T}\right)$$

W. Herz, R. N. Mirrington, H. Young, and Y. Y. Lin: The Synthesis of Methyl 13,16-Cycloatisan-18-oate (Methyl *anti*-trachylobanate).

Page 4212. Column 2, line 23. "**17a**" should read "**16a**."

Page 4217. Column 1, last line and line 19 from bottom. "**17a**" should read "**16a**." Column 2, line 7. "**17a**" should read "**16a**."

M. E. Kuehne and P. J. Sheeran: Reactions of Ynamines.

Page 4408. Column 1. The compounds **10a, b,** assigned the cyclic ether structure, have been found to show absorption in the ir at 1935 cm^{-1} and are reassigned the allenic amide structure presumably formed by ring opening of the cyclic ether structure.

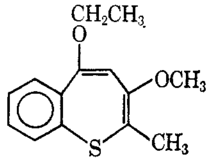
D. T. Manning, H. A. Coleman, and R. A. Langdale-Smith: Formation of Pyrazoles from 3,3-Disubstituted 2,4-Pentanediones. Evidence of a Novel Claisen–Cope Type of Rearrangement.

Page 4415. A double bond was omitted from the C-4–C-5 position of structure **16.**

Vol. 34, 1969

W. E. Parham and D. G. Weetman: The Benzothiepin Ring System. A 12-π-Electron System.

Page 56. The correct structure of compound **7** follows.



E. P. Burrows, G. M. Hornby, and E. Caspi: Reassignment of Configuration to the 22-Hydroxycholesterols. Synthesis of (22*S*)- and (22*R*)-^{3}H-Cholesterols.

Page 103. Table I, line 4. "**5a**" should read "**5b**." The optical yields for **5a** and **5b** were reversed; they should be 12 and 59%, respectively.

Page 105. Column 2, line 11. The formula should be "$C_6H_5CO_2H$."

Page 106. Table II. "$[\alpha]_{D\,obsd}$" should read "$\alpha_{D\,obsd}$" (no brackets).

Louis A. Carpino: 1,1,2-Triphenylbenzocyclobutene.

Page 462. Column 1, line 25 from bottom. The sentence beginning "The amalgam..." should read as follows. The amalgam was washed by decantation successively with four to five portions of water, ethanol, and ether, and then 16 g of the fresh amalgam was used at once to reduce 15 g of 2-nitroso-1,1,3,3-tetraphenyldihydroisoindole in the normal manner.[11]

J. G. Traynham, A. G. Lane, and N. S. Bhacca: Stereochemistry of Radical Additions of Bromotrichloromethane to Some Cyclic Olefins.

Page 1302. The caption for Figure 1 should read, in part, "H_a and H_b are geminal hydrogens vicinal to Br; H_c and H_d are geminal hydrogens vicinal to CCl_3."

K. Kawakami and H. G. Kuivila: Preparation and Spectral Characteristics of Some Allyltins. Nature of Allyl–Tin Interactions