that in the biosynthesis of the growing polyhydroxy fatty acid chain, β -ketoacyl CoA reduction can occur with either stereochemistry. For the moment no information is available as to how the secondary methyl stereochemistry at C-2, C-4, C-6, and C-24 While further experiments, now in progress, will be required to determine directly the origins of the three remaining ether oxygens as well as that of the C-26 hydroxyl, it is likely that all four atoms are derived from molecular oxygen. Extending the original suggestion of Westley,7 it is therefore interesting to speculate that the first formed polyfunctional fatty acid would be the all-(E)-triene 6^{27} which could undergo epoxidation to give the (12R, 13R, 16R, 17R, 20S, 21S)-triepoxide 7 (Scheme III). Attack of the C-5 hydroxyl of 7 at the C-9 carbonyl carbon would initiate a cascade of ring closures to generate all five ether rings of monensin. These results are also in accord with similar findings by Hutchinson et al. on the biosynthesis of the aromatic polyether lasalocid, reported in the accompanying communications.²⁹

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Reaction of Alkoxides with (Phenylthio)carbene: A Novel Oxyanionic Substituent Effect on the C-H **Insertion of Carbenes**

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While the addition of carbenes to alkenes has been utilized as an efficient tool for C-C bond formation in organic synthesis, the insertion of carbenes has been overlooked owing to its less selective nature. An activation of a particular C-H bond seems to be a requisite for the selective insertion to occur. For example, Seyferth et al. have reported that the α -C-H bond of tetrahydrofuran shows enhanced reactivity toward dichlorocarbene generated from PhHgCCl₂Br to give the insertion product in high yield.² In connection with the current interest in oxyanionic substituent effects,³ we have examined the reactivity of carbenes toward alkoxide anions. Herein we wish to report a novel effect of oxyanion substituent which greatly facilitates the insertion of (phenylthio)carbene⁴ into the α -C-H bond of alkoxide anions.⁵

To a mixed suspension of sodium allylalkoxide (1a, 2.5 equiv) and t-BuOK (2.5 equiv) in THF was added a THF solution of chloromethyl phenyl sulfide, and the total mixture was stirred for 0.5 h at 0 °C. After aqueous workup followed by column chromatography, 1-(phenylthio)-3-buten-2-ol (2a) and allyl (phenylthio)methyl ether (3a) were isolated in 29% and 64% yield, respectively (eq 1). The formal insertion product 2a could be

ONa + CICH₂SPh
$$\frac{7-\text{BuOK/THF}}{\text{O °C, O.5 h}}$$
 OH +

Ia

2a

OCH₂SPh (1)

produced via a Wittig rearrangement of the first formed ether 3a as shown in eq 2. However, the possibility is ruled out as

follows: 3a slowly isomerized to cis-1-propenyl (phenylthio)methyl ether without the formation of 2a when treated with t-BuOK (1.25 equiv) in refluxing THF.8 Thus, under these reaction conditions allylic carbanion 4, if formed, cannot be rearranged to give 2a.

Not only other allylic alkoxides but also propargylic, benzylic, and even simple alkyl alkoxides undergo C-H insertion reaction to give β -phenylthio alcohols 2a-m besides forming the corresponding ether 3a-m (eq 3). These results are summarized in

$$\begin{array}{c} R^{1}R^{2}CHOM + ClCH_{2}SPh \xrightarrow{t\text{-BuOK}} \\ Ia\text{-m} & R^{1}R^{2}CCH_{2}SPh + R^{1}R^{2}CHOCH_{2}SPh \ \ \, (3) \\ OH & 3a\text{-m} \\ 2a\text{-m} & \\ a, \ R^{1} = CH_{2}\text{=-}CH\text{--}; \ R^{2} = H \\ b, \ R^{1} = trans\text{-}CH_{3}CH\text{=-}CH\text{--}; \ R^{2} = H \\ c, \ R^{1} = trans\text{-}PhCH\text{=-}CH\text{--}; \ R^{2} = H \\ d, \ R^{1} = CH_{2}\text{=-}C(CH_{3})\text{--}; \ R^{2} = H \\ e, \ R^{1} = (CH_{3})_{2}C\text{=-}CH\text{--}; \ R^{2} = H \\ f, \ R^{1} = CH_{2}\text{=-}CH\text{--}; \ R^{2} = H \\ f, \ R^{1} = CH_{2}\text{=-}CH\text{--}; \ R^{2} = H \\ h, \ R^{1} = Ph\text{--}; \ R^{2} = H \\ i, \ R^{1} = CH_{3}; \ R^{2} = CH_{3} \\ \end{array}$$

While a small amount of olefin addition product 5 (13%) was obtained in addition to the insertion product 2e in the reaction

⁽²⁶⁾ The methyl group stereochemistry at C-18 and C-22 is presumably determined as a consequence of the reduction of α -methyl, $\alpha.\beta$ -unsaturated acyl-CoA intermediates, analogous to those of normal fatty acid biosynthesis: acyl-CoA intermediates, analogous to those of normal raity acid obsynthesis: F. Lynen, Biochem. J., 102, 381 (1967); K. Bloch and D. Vance, Annu. Rev. Biochem., 46, 263 (1977); B. Sedgwick and J. W. Cornforth, Eur. J. Biochem., 75, 465 (1977); B. Sedgwick, J. W. Cornforth, S. J. French, R. T. Gray, E. Kelstrup, and P. Willadsen, ibid., 75, 481 (1977); B. Sedgwick, C. Morris, and S. J. French, J. Chem. Soc., Chem. Commun., 193 (1978).

⁽²⁷⁾ Each (E)-olefin could be formed by either syn dehydration of an erythro-α-alkyl-β-hydroxyacyl-CoA or anti dehydration of the corresponding threo- α -alkyl- β -hydroxyacyl-CoA. In the latter regard we note the threo relationship of the C-2,-3, C-4,-5, and C-6,-7 centers of monensin itself. The same threo stereochemistry is prevalent in all known macrolides, as summarized by Celmer's rules. 28

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⁽⁵⁾ Under the reaction conditions of the Williamson synthesis, observations of complex reactions have sometimes been reported. For example, Corey et al. have noted a complex reaction between iodomethyl methylsulfide and secondary or tertiary sodium alkoxides. 6 Carig et al. have detected the C-H insertion product of vinylidenecarbene when they treated 1-bromoalk-1-ynes or 1-bromo 1,2-dienes with sodium alkoxides.

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Table I. Reaction of Alkoxides with (Phenylthio)carbene^a

entry	alkoxides	(amount, equiv)	time, h	product ^b (yield, %) ^c	
				C-H insertion	C-M insertion
1	ONa (1a)	(2.5)	0.5	2ad (29)	3a ^d (64)
2^e	ŕ	(2.5)	0.5	2a (26)	3a (30)
3	ONa (1b)	(2.5)	0.5	2b ^d (43)	$3b^{d}$ (38)
4	Ph ONa (1c)	(2.5)	0.5	$2c^d$ (45)	$3c^d$ (43)
5	ONa (1d)	(2.5)	0.5	2d (42)	3d (40)
6	ONa (1e)	(2.5)	0.5	2e (38) 5 ^f (13)	3e (34)
7	ONa (1f)	(1.25)	0.5	2f (41)	3f (23)
8	HC≡CCH₂ONa (1g)	(2.5)	0.5	2g (22)	3g (22) 6 ^g (39)
9	PhCH ₂ OLi ^h (1h)	(1.25)	1.0	$2h^{d}$ (48)	$3h^{d}(22)$
10	n-PrONa (1i)	(1.25)	0.5	2i (9)	3i (91)
11	i-PrOLi ^h (1j)	(1.25)	1.0	2j (12)	3 j (36)
12	r-Bu ONα (1k)	(1.25)	0.5	$2k^d$ (6)	$3k^d$ (27)
13	7-Bu ONa (1m)	(1.25)	0.5	$2m^d$ (22)	3m (18)

^a Unless otherwise noted, sodium alkoxides (1.25-2.5 equiv) prepared in situ from the corresponding alcohols with NaH in THF were allowed to react with ClCH₂SPh (1 equiv) and t-BuOK (equivalent to alkoxides) for the period indicated. b All products showed satisfactory spectral data (IR, 1H NMR, and mass). c Yields refer to the isolated yield based on CICH2SPh. d Satisfactory analytical results were obtained for these compounds. e t-BuONa (2.5 equiv) was employed in place of t-BuOK. f 5; [3,3-dimethyl-2-(phenylthio)cyclopropyl]-methanol (mixture of isomers). g 6; CH₂=C=CHOCH₂SPh. h Lithium alkoxide prepared in situ from the corresponding alcohol with BuLi

of sodium prenyl alkoxide (entry 6), no addition product was detected in other series of allylic alkoxides. These results present a remarkable contrast to the reported addition of dihalocarbene to allylic ethers and alcohols.9 Seyferth et al. have reported that dichlorocarbene generated from PhHgCCl₂Br reacts with allyl ethyl ether to give both the addition and the C-H insertion product in 82% and 14% yield, respectively. 9a Exclusive addition of dihalocarbenes generated under phase-transfer conditions to allylic alcohols, such as methallyl alcohol and prenyl alcohol, was also reported. 9d.e To ascertain that the present characteristic reactivity of the α -C-H bond of alkoxides is not due to the reactivity of (phenylthio) carbene but to an oxyanionic substituent effect, the following experiments were performed. (Phenylthio)carbene, generated under phase-transfer conditions (CH₂Cl₂-aqueous 50% NaOH using BzNEt₃+Cl⁻ as a catalyst), 4c was allowed to react with prenyl alcohol to give olefin adduct 5 (3.8%) together with prenyl (phenylthio)methyl ether 3e (41%). The insertion product 2e could not be detected after thorough examination of the reaction mixture by means of column chromatography. Moreover, the reaction of methallyl methyl ether with (phenylthio)carbene under similar conditions only gave an olefin adduct, 2-methyl-2-(methoxymethyl)-1-(phenylthio)cyclopropane (36%).

The present oxyanionic substituent effect which facilitates the C-H insertion seems to be based on (1) the decrease in the C-H bond energy of alkoxides3b and (2) the stabilization of the polar transition state 7 by electron-donating substitution. 11 The stereospecificity of the reaction as demonstrated below supports the validity of this concerted mechanism of the C-H insertion. Thus, the sodium alkoxides of trans- and cis-4-tert-butylcyclohexanol in the reaction with (phenylthio)carbene stereospecifically¹⁴ gave the axial (2k) and equatorial C-H insertion product (2m), respectively (entry 12 and 13, eq 4 and 5).15 As shown in Table

$$1k + CICH2SPh \xrightarrow{f-BuOK} THF$$

$$2k$$

$$1m + CICH2SPh \xrightarrow{f-BuOK} THF$$

$$2m$$

$$OCH2SPh (4)$$

$$2m$$

$$OCH2SPh (5)$$

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^{(10) 3}e might be formed either by O-H insertion of (phenylthio)carbene or by S_N2 displacement reaction.

⁽¹¹⁾ The insertion may occur by attack either on the electrons of the C-H bond (7)¹² or on the hydrogen atom via the transition state with a linearly arranged PhSCH····H····C(O⁻) conformation.¹³
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⁽¹⁴⁾ In each reaction, the other stereoisomer could not be detected by VPC analysis of the reaction mixtures.

⁽¹⁵⁾ Structures of isomeric alcohols 2k and 2m are determined after the (15) Structures of isomeric alcohols 2k and 2m are determined after the desulfurization of one isomer 2m to the known cis-4-tert-butyl-1-methyl-cyclohexanol (mp 69-70 °C, lit. 69-70 °C, lot. 70.5-71 °Cl⁷) using Raney nickel in refluxing ethanol (94% yield). Structures of 3k and 3m were determined by means of ¹H NMR spectral analysis of their C(1) protons: the axial proton of 3k resonates as a broad multiplet (ca. 40 Hz) centered at δ 3.55, while the equatorial proton of 3m resonates as a multiplet (ca. 16 Hz) at δ 4.00. ¹⁸ (16) Corey, E. J.; Chaykovsky, M. J. Am. Chem. Soc. 1965, 87, 1353. (17) Depuy, C. H.; King, R. W. J. Am. Chem. Soc. 1961, 83, 2743. (18) Jackman, L. M.; Sternhell, S. "Application of Nuclear Magnetic Chapter."

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I the ratio of the C-H insertion to the formal C-Metal insertion rises with the increase of electron-donating substitution at the olefin or α -carbon site, and this validates the second factor for facilitating the C-H insertion (vide supra).

As to the formation of ether 3, there are two possible mechanisms: (1) S_N2 attack of alkoxide anion on $ClCH_2SPh$ and (2) the insertion of (phenylthio)carbene into the oxygen-metal bond and subsequent protonation. In the absence of t-BuOK, sodium allylalkoxide reacts with $ClCH_2SPh$ very slowly at 0 °C, and only a trace amount of 3a is produced together with the almost quantitative recovery of $ClCH_2SPh$ after reacting for 1 h. While this result suggests mechanism 2, there still remains at present a possibility of mechanism 1 where the addition of t-BuOK provides the corresponding potassium alkoxide as an active nucleophile. A reaction using t-BuONa in place of t-BuOK was performed, giving rise to the formation of 2a and 3a in 26% and 30% yield, respectively (entry 2, Table I). Thus, at least in this reaction, it is apparent that the formation of 3a proceeds via the insertion of (phenylthio)carbene into the oxygen-sodium bond.

Work is in progress to disclose more precisely the nature and the synthetic potential of the present reaction.

Oxotrimolybdenum(IV) Alkoxides, $Mo_3(\mu_3-O)(\mu_3-OR)(\mu_2-OR)_3(OR)_6$ (R = CH(CH₃)₂ and CH₂C(CH₃)₃). Synthetic Considerations

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Recently a large class of *triangulo-M*₃ complexes of molybdenum and tungsten have been discovered.¹ Some of these have involved 8-4 cluster electrons, though most commonly the number is 6. As yet little is known about the reaction pathways leading to these compounds, though they do appear to form very readily with a variety of ligands. For example, Bino, Cotton, and Dori recently reported² their characterization of six compounds of formula $[Mo_3(\mu_3-X)(\mu_3-Y)(OAc)_6(H_2O)_3]_x$ - yH_2O , where X = Y = O, $X = Y = CCH_3$, and X = O, $Y = CCH_3$. All of these were formed in the reaction between $Mo(CO)_6$, AcOH, and $(AcO)_2O$, which also yields the well-known dinuclear compound

 $Mo_2(OAc)_4$ (M⁴M). We wish here to report our discovery of oxotrimolybdenum(IV) alkoxides of formula $Mo_3(\mu_3-O)(\mu_3-OR)(\mu_2-OR)_3(OR)_6$, where R = isopropyl (i-Pr) and neopentyl (Ne), and furthermore to show that these compounds can be prepared in high yields by rational syntheses based on known reactivity patterns of metal-metal bonds.

During the course of studies of the reactions between $Mo_2(OR)_6$ compounds and molecular oxygen, which lead ultimately to $MoO_2(OR)_2$ compounds with cleavage of the $Mo \equiv Mo$ bond,³ we noted the formation of green intermediates when R = i-Pr and

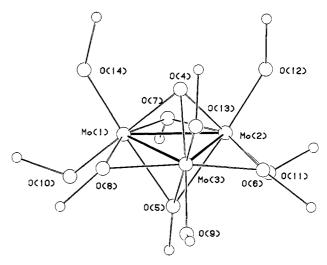


Figure 1. ORTEP view of the central $Mo_3O(OC)_{10}$ skeleton of the $Mo_3O(ONe)_{10}$ molecule. All atoms are assigned arbitrary thermal parameters. Each molybdenum atom is in a distorted octahedral environment with respect to six directly bonded oxygen atoms. Pertinent bond distances in Å (averaged) are Mo-Mo = 2.529 (9), $Mo-\mu_3O(exo) = 2.03$ (3), $Mo-\mu_3OR = 2.21$ (3), $Mo-\mu_2OR = 2.02$ (3), Mo-OR(terminal) trans to O(4) = 1.94 (2), Mo-OR(terminal) trans to $\mu_3-OR = 1.85$ (3).

Ne (Ne = CH_2CMe_3). Indeed, from reactions involving Mo_2 -(ONe)₆ and O_2 , we were able to isolate the green crystalline compound $Mo_3(O)(ONe)_{10}$, which was fully characterized by an X-ray study.⁴ An ORTEP view of the central $Mo_3O(OC)_{10}$ skeleton of the molecule is shown in Figure 1 along with some pertinent bond distances.

A retrosynthetic analysis suggested that the *triangulo*-Mo₃- $(\mu_3$ -O) unit could be constructed by the addition of an oxomolybdenum (6+) unit across the Mo \equiv Mo bond as in reaction 1. This bears analogy with the approach to cluster synthesis adopted by Stone and co-workers involving M \equiv CR₂ and M \equiv CR groups.⁵

$$Mo_3(\mu_3-O)(OR)_{10} \to Mo_2(OR)_6 + MoO(OR)_4$$
 (1)

The oxomolybdenum(6+) alkoxides, MoO(OR)₄, which were unknown, were viewed as the products of a simple replacement of a Mo=Mo bond⁶ by two Mo=O bonds in the oxygenolysis reaction (2). Previously it had been shown⁷ that the three electron

$$2\text{MoO(OR)}_4 \rightarrow \text{Mo}_2(\text{OR})_8 + \text{O}_2 \tag{2}$$

ligand, NO, readily cleaves the Mo=Mo bond to give two Mo-NO bonds, which may be formally viewed as M=N-O.7

This synthetic strategy was successful: Mo₂(OR)₈ and molecular oxygen react to yield MoO(OR)₄ compounds which, in turn, react with Mo₂(OR)₆ compounds to yield Mo₃O(OR)₁₀ compounds in essentially quantitative reactions.⁸

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⁽⁴⁾ Crystals suitable for X-ray work were grown from methylene chloride. Crystal data, collected at -161 °C, using Mo K α radiation, gave the following: a=35.56 (2), b=18.97 (1), c=19.34(1) Å; space group Pbcn; Z=8; $d_{calcol}=1.295$ g cm⁻³. Of the 10.379 reflections measured in the range $6 \le 2\theta \le 40^\circ$, 6102 were unique. Only 55% of the unique data were observed using the criteria $F \ge 2.33\sigma(F)$. In retrospect, this was proven to be caused by loss of a solvent molecule (CH₂Cl₂) and disorder of one of the ONe ligands [0(5) in Figure 1] and high thermal motions of all the neopentyl groups. The structure was readily solved by direct methods and Fourier techniques and refined by full-matrix least squares. Only the largest 1500 reflections were used in the refinement. Molybdenum atoms were assigned anisotropic thermal parameters, and all other atoms were assigned isotropic parameters. Two peaks that occurred in a void in the crystal were assigned as chlorine atoms, whose occupancy refined to 0.33. The carbon of the CH₂Cl₂ molecule was not discernible. Final residuals are R(F)=0.0752 and Rw(F)=0.0759.