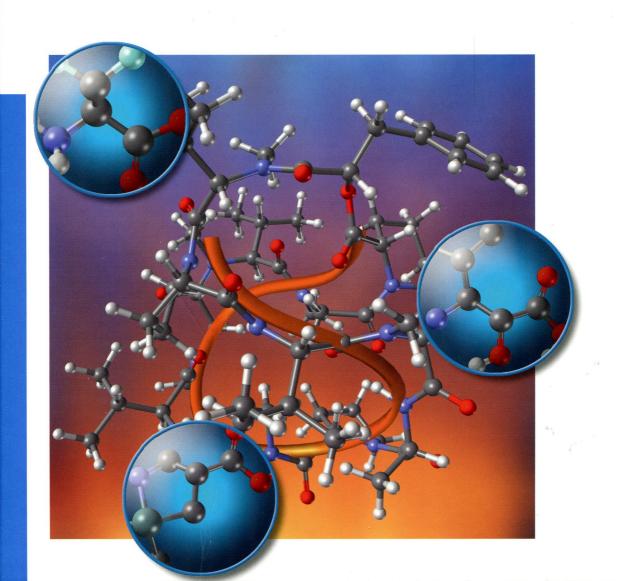
# Amino Acids, Peptides and Proteins in Organic Chemistry

Volume 1
Origins and Synthesis of Amino Acids



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Volume 1 - Origins and Synthesis of Amino Acids

Edited by Andrew B. Hughes



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β-Hydroxy-Disubstituted γ-Amino Acids

Unsaturated Substituted y-Amino Acids

(R)-2-Ethyl-4-nitrobutan-1-ol (36c) 666

dimethyl-1,3-dioxane-4,6-dione 670

(R)- and (S)-[2-(Benzyloxy) ethyl]oxirane 671

663

*N-tert*-Butyl-*N*-(*p*-chlorophenylethyl) α-Diazoacetamide 669

(R)-5-[(1-Oxo-2-(tert-butoxycarbonylamino)-3-phenyl)-propyl]-2,2-

Unsaturated γ-Amino Acids 640

Cyclopropyl γ-Amino Acids 644 Cyclobutyl γ-Amino Acids 648

Cyclopentyl γ-Amino Acids 653

Cyclic y-Amino Acids 644

Cyclohexyl γ-Amino Acids

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α-Hydroxy-γ-Amino Acids β-Hydroxy-γ-Amino Acids

14.6.3

14.6.4 14.7

14.8

14.8.1

14.8.2

14.8.3

14.8.4

14.8.5

14.9.1

14.10

14.10.1

14.10.2

14.10.3 14.10.4

14.11

14.12

14.12.1 14.12.2

14.12.3

14.12.4

14.9

14.12.5	Dimethyl $(S,S)$ - $(-)$ - $3$ - $N,N$ -bis $(\alpha$ -Methylbenzyl)-amino-2-
	oxopropylphosphonate 672
14.12.6	Boc-L-leucinal 673
14.12.7	Cross-Coupling of N-tert-Butylsulfinyl Imine and tert-Butyl
	3-oxopropanoate 674
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