BIOTECHNOLOGY

Edited by C. F. PHELPS and P. H. CLARKE

The fourteen contributions forming this volume were presented at a London meeting of the Biochemical Society including the Society's Forty-Eighth Symposium 'Biotechnology', in December 1982. With today's increasing pressures to develop latest laboratory findings into practical industrial processes as quickly as possible the chosen theme of this Symposium was a timely one. The papers represent up-to-date reports from international biochemists whose work is of direct relevance to the wide areas of interests concerned with biotechnology, together with glimpses of the early development of its techniques and a look at its exciting future.

List of contents and authors:

257 pp. ISBN 0 904498 15 8 £25.00 (US $57.50)
New Products

9-(Methylaminomethyl)anthracene
N-Methyl-1-naphthalenesemethylamine Hydrochloride

\[
\begin{align*}
\text{1} & \quad \text{2} \\
\text{1} & \quad \text{2} & \quad \text{HCl} \\
\end{align*}
\]

Determination of isocyanates in air via UV or fluorescence detection.


27,008-3 (1) 1g $11.00; 5g $36.70
26,231-5 (2) 1g $7.20; 10g $40.00

Ethyl N-(2,4-Dinitrophenoxo)-acetamide

\[
\begin{align*}
\text{O} & \quad \text{O} & \quad \text{Cl} \\
\text{O} & \quad \text{O} & \quad \text{Cl} \\
\end{align*}
\]

Precursor to O-(2,4-dinitrophenol)-hydroxyamine, a powerful aminating agent. * * *


26,874-7 5g $17.75; 25g $59.10

Methyl 3-Aminopyrazine-2-carboxylate

\[
\begin{align*}
\text{N} & \quad \text{CO}_2\text{Me} \\
\text{N} & \quad \text{CO}_2\text{Me} \\
\end{align*}
\]

Starting material for a series of pyrazine diuretics. **


27,615-4 1g $9.50; 10g $50.00

Bis(2-oxo-3-oxazolidinyl)phosphonic Chloride (BOP-Cl)

\[
\begin{align*}
\text{Me} & \quad \text{O} & \quad \text{Cl} \\
\text{Me} & \quad \text{O} & \quad \text{Cl} \\
\end{align*}
\]

Carboxylate activator for the formation of amides and esters; possible application in peptide synthesis.


27,096-2 1g $5.50; 5g $18.35

1,6-Dioxaspiro[4,4]nonane-2,7-dione

Forms half-ester and amides of 4-oxoheptane-1,7-dioic acid, useful intermediates in synthesis.


27,197-7 5g $13.75; 25g $45.80

Pyridilium 3-Nitrobenzenesulphonate

Non-hygroscopic, mild acid catalyst for the formation of cyclic orthoester protecting groups in nucleosides.


27,198-5 5g $6.75; 25g $22.50

Tetramethyltetraeosulfulvene (TMSF)

Various salts of TMSF [(TMSF)X] become superconducting at low temperatures (~ 1 K).


27,440-2 100mg $17.50; 500mg $58.00

1,2,2,6,6-Pentamethylpiperidine (PMP)

Stereically hindered, exceptionally strong organic base (pKa = 11.25), which does not quaternize with CH₃⁺. Acylation of a sensitive intermediate in the total synthesis of (±)-gephyrotoxin.


27,463-1 1g $6.80; 5g $22.70

Bis(2,2,2-trifluoroethyl) (Metoxycarbonylmethyl)phosphonate

\[
\begin{align*}
\text{F}_2\text{C} & \quad \text{CH} & \quad \text{CO} & \quad \text{Me} \\
\end{align*}
\]

Modified Horner-Emmons reagent for stereoselective synthesis of (Z)-α,β-unsaturated esters from aldehydes.


27,425-9 5g $7.50; 5g $24.95

Methylphosphonic Dichloride

Preparation of oligonucleotides containing methylphosphonates at defined sites; the methyl group attached to the phosphorus atom renders it configurationally stable.


22,805-2 5g $19.00; 25g $67.50

(Phenylthiomethyl)trimethylsilane

PhSiCH₂SiMe₃

Formyl anion equivalent (CHO) for homologation of aliphatic hydrocarbons to aldehydes.


26,858-5 5g $7.85; 25g $26.10

Methyl Trimethylsilyl Dimethylketene Acetate (MTDA)

\[
\begin{align*}
\text{Me} & \quad \text{O} & \quad \text{SiMe₃} \\
\text{Me} & \quad \text{O} & \quad \text{SiMe₃} \\
\end{align*}
\]

Catalyst in the new technique group-transfer polymerization (GTP), which allows controlled polymerization of α,β-unsaturated carbonyl compounds via a living polymer.


27,458-5 5g $15.00; 25g $50.30

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