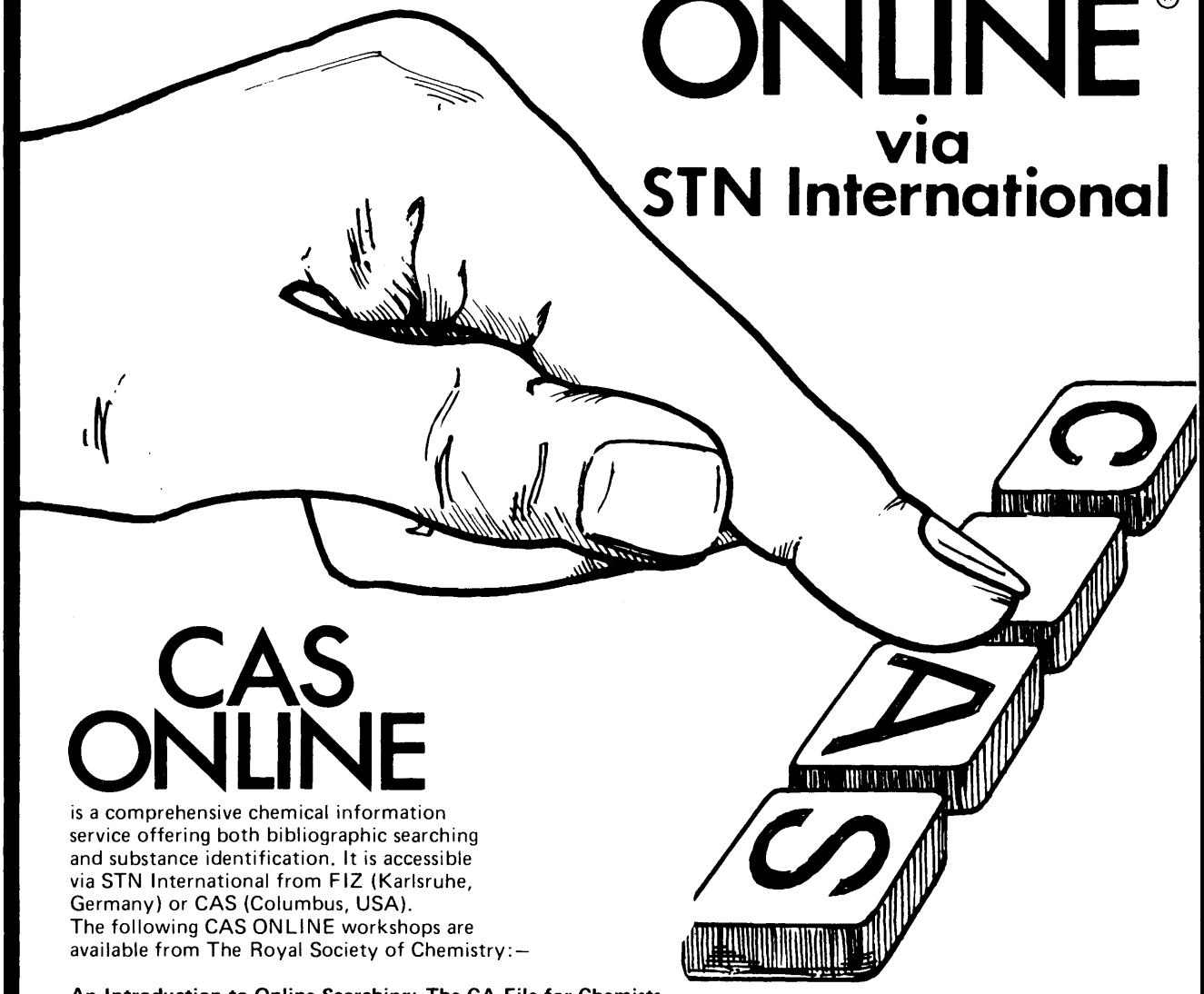
Hands on..... CAS ONLINE®

via STN International



CAS ONLINE

is a comprehensive chemical information service offering both bibliographic searching and substance identification. It is accessible via STN International from FIZ (Karlsruhe, Germany) or CAS (Columbus, USA).
The following CAS ONLINE workshops are available from The Royal Society of Chemistry:–

An Introduction to Online Searching: The CA File for Chemists–

... designed especially for chemists, engineers, and other scientists who have little or no experience in online searching. Topics covered include: what basic tools are needed to specify your search requirements, what information can be searched using those tools, and how to evaluate the results of your search. Hands-on practice is included.

The CA File–Basic Level–

... covers the basics needed to search the bibliographic and index information in the CA File on CAS ONLINE. The course is designed for librarians and other information searchers who have experience in online searching but are new at searching the CA File on CAS ONLINE. Topics covered include command language, searchable and displayable fields, and the basic techniques needed to use the CA File effectively. Hands-on practice is included.

Search Strategy in the CA File–

... designed for the searcher who has experience in searching the CA File on CAS ONLINE and/or has attended an introductory CA File Workshop. The course will focus on search strategy, data base content, CAS's indexing policies, and the use of search aids. Knowledge of the command language is required.

The Registry File–Basic Level–

... covers substance identification in the Registry File, providing access to over 6.5 million substances. You will learn to search by structure or substructure diagram, or by chemical names. Answers include structure diagrams, Registry Numbers, synonyms, CA Index Names, and molecular formulas, as well as the ten most recent CA citations for each Registry Number. Hands-on practice is included.

For further details, contact:–

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ROYAL SOCIETY OF CHEMISTRY

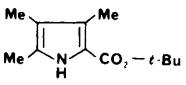
Pyrroles and Cyclopentadienes

Steps to Porphyrins . . . . the Keys to Life

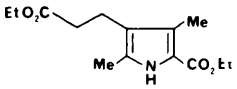
One of the articles in our *Aldrichimica Acta* that has been very stimulating to the imagination of our customers is that on porphyrins [*Aldrichim. Acta* **1983**, *16*(2), 36].

Many scientists wish to make their own porphyrins and have asked us to offer the building blocks — the partly symmetrically substituted pyrrole esters which can be hydrolyzed and decarboxylated.

Here are six of those building blocks, each available at 1g/$9.00 and 5g/$30.00.



28,891-8



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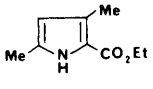
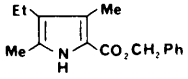
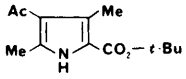


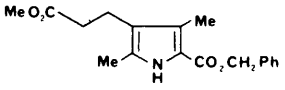
28,892-6



28,894-2



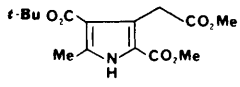
28,896-9



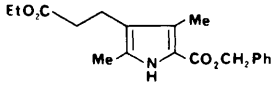
28,895-0

28,891-8 *tert*-**Butyl 3,4,5-trimethyl-2-pyrrolecarboxylate,** 97%
28,892-6 **Ethyl 3,5-dimethyl-2-pyrrolecarboxylate,** 98%
28,893-4 **Ethyl 2,4-dimethyl-5-(ethoxycarbonyl)-3-pyrrolepropionate,** 97%
28,894-2 **Benzyl 3,5-dimethyl-4-ethyl-2-pyrrolecarboxylate,** 97%
28,895-0 **Methyl 5-(benzyloxycarbonyl)-2,4-dimethyl-3-pyrrolepropionate,** 97%
28,896-9 *tert*-**Butyl 4-acetyl-3,5-dimethyl-2-pyrrolecarboxylate,** 98%

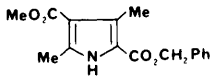
Please send for a computer printout of all our pyrroles, many of which are listed in our *Alfred Bader Collection of Rare Chemicals* (the ABC Library), for example:



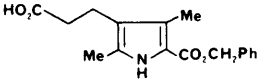
S73,924-3



S73,925-1



S73,927-8



S73,928-6

Each of these compounds is available at 5g/$20.00.

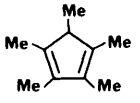
S73,924-3 **Methyl 4-(*tert*-butoxycarbonyl)-2-(methoxycarbonyl)-5-methyl-3-pyrroleacetate**
S73,925-1 **Ethyl 5-(benzyloxycarbonyl)-2,4-dimethyl-3-pyrrolepropionate**
S73,927-8 **Benzyl 3,5-dimethyl-4-(methoxycarbonyl)-2-pyrrolecarboxylate**
S73,928-6 **5-(Benzyloxycarbonyl)-2,4-dimethyl-3-pyrrolepropionic acid**

Coordination Chemistry with Cyclopentadienes

Transition-metal complexes with pentamethylcyclopentadienyl (**η^5-C_5Me_5**) or ethyltetramethylcyclopentadienyl (**η^5-C_5Me_4Et**) ligands are of current interest with regard to their structural chemistry and reactivity patterns.[1] Complexes coordinated with **η^5-C_5Me_5** or **η^5-C_5Me_4Et** ligands offer practical advantages of higher solubility, crystallinity and, in some cases, stability over the parent (**η^5-C_5H_5**) complexes.[2] The **η^5-C_5Me_5** ligand confers symmetry on the complex while the **η^5-C_5Me_4Et** complexes show increased solubility in some solvents over the **η^5-C_5Me_5** analogs.[3]

Recent studies utilizing these superb ligands in coordination with, for example, V, Cr, Ni,[4] Co,[4,5] Fe,[4,6] Ru,[7] Hf,[2] Co-Ir,[1] and Sm,[8] show the importance and popularity of the ligands and their complexes.

Until recently, the development of these complexes was hampered by the difficulty in preparation of the ligands.[3] Today, these ligands are available from Aldrich.



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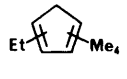

2

21,402-7 **1,2,3,4,5-Pentamethylcyclopentadiene (1)** **1g $11.50; 5g $46.50; 25g $155.00**
26,393-1 **Ethyltetramethylcyclopentadiene,** 97%, mixture of isomers **(2)** **1g $8.90; 5g $29.60**

References:

1) Hermann, W.A. *et al. Organometallics* **1985**, *4*, 172.
2) Roddick, D.M. *et al. ibid.* **1985**, *4*, 97.
3) Feitler, D.; Whitesides, G.M. *Inorg. Chem.* **1976**, *15*, 466.
4) Kohler, F.H.; Doll, K.H.; Prossdorf, W. *J. Organomet. Chem.* **1982**, *224*, 341.
5) Raabe, E.; Koelle, U. *ibid.* **1985**, *279*, C29.
6) Catheline, D.; Astruc, D. *Organometallics* **1984**, *3*, 1094.
7) Bailey, N.A. *et al. J. Organomet. Chem.* **1978**, *154*, 343.
8) Evans, W.J. *et al. Organometallics* **1985**, *4*, 112.