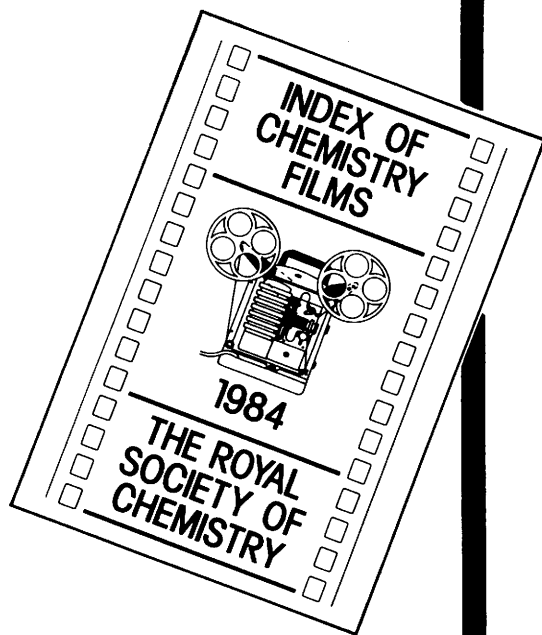


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# Index of Chemistry Films 1984



**Compiled by J.S. Clarke**

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**The contents of this new book are as follows:**

Notes for Guidance  
Subject Categories  
Classified Index

- Part 1 Physical Chemistry
- Part 2 Inorganic Chemistry
- Part 3 Organic Chemistry
- Part 4 Energy
- Part 5 Biochemical Topics
- Part 6 Applied Chemistry
- Part 7 Miscellaneous Topics

Alphabetical Index

Appendix 1: Late Entries to Classified Index

Appendix 2: Items too Late for Classified and Alphabetical Indices

Addresses of Distributors

**Each entry includes the following information:**

Title  
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Black and White or Colour  
Sound or Silent  
Running Time  
Gauge  
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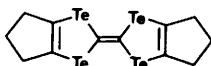
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# Potpourri

## Hexamethylenetetrafulvalene (HMTTF)

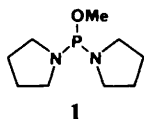


Recently discovered precursor to organic conductors, now offered by Aldrich. Several charge-transfer complexes of HMTTF (notably with TCNQ and *p*-quinones) have been found to exhibit very low resistivities and low activation energies.

Saito, S.; Enoki, T.; Inotzuchi, H. *Chem. Lett.* **1983**, 503. Wudl, F.; Aharon-Shalom, E. *J. Am. Chem. Soc.* **1982**, *104*, 1154. Carroll, P. *et al. Chem. Commun.* **1982**, 1316.

27,716-9 250mg \$19.20; 1g \$53.40

## Bis(pyrrolidino)methoxyphosphine (1) 4,5-Dichloroimidazole (2)

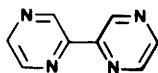


Combination of these two reagents yields a highly selective, activated phosphitylating agent for the preparation of nucleoside phosphoramidite intermediates for DNA synthesis.

Beaucage, S.L. *Tetrahedron Lett.* **1984**, *25*, 375.

27,735-5 (1) 1g \$6.90; 5g \$38.70  
27,736-3 (2) 5g \$9.90; 25g \$33.20

## 2,2'-Bipyrazine

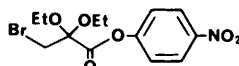


Used in the preparation of tris(bipyrazyl)Ru(II) complexes which have unusual photophysical properties.

Autchley, R.J.; Kress, N.; Lever, A.B.P. *J. Am. Chem. Soc.* **1983**, *105*, 1170. Rillema, D.P.; Allen, G.; Meyer, T.S.; Conrad, D. *Inorg. Chem.* **1983**, *22*, 1617. Autchley, R.J.; Lever, A.B.P. *ibid.* **1982**, *21*, 2276. Gonzales-Velasco, J.; Rubinstein, I.; Autchley, R.J.; Lever, A.B.P. *ibid.* **1983**, *22*, 822.

27,602-2 250mg \$14.40; 1g \$40.00

## 4-Nitrophenyl 3-Bromo-2,2-diethoxypropionate

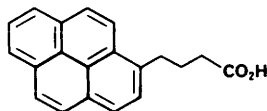


The carboxyl group of this 3-halo-pyruvic acid derivative is activated towards nucleophilic attack, while the reactive  $\alpha$ -bromocarbonyl moiety is masked as a ketal. Used as starting material for a variety of novel heterocycles.

LaMattina, J.L.; Mularski, C.J. *Tetrahedron Lett.* **1983**, *24*, 2059.

27,727-4 1g \$10.25; 5g \$34.25

## 1-Pyrenebutyric Acid



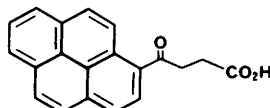
Recently used to construct fluorescent probes for the study of transport through biological membranes.

Wolkowicz, P.E.; Pownall, H.J.; McMillin-Wood, J.B. *Biochemistry* **1982**, *21*, 2990.

25,735-4 1g \$8.25; 5g \$27.50

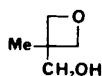
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## 3-Methyl-3-oxetanemethanol

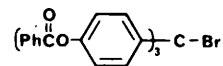


Used in the preparation of cyclic orthoesters for the protection of the carboxyl group, as exemplified in a total synthesis of ( $\pm$ )-hybridalactone.<sup>2</sup>

(1) Corey, E.J.; Raju, N. *Tetrahedron Lett.* **1983**, *24*, 5571. (2) Corey, E.J.; De, B. *J. Am. Chem. Soc.* **1984**, *106*, 2735.

27,768-1 10g \$9.50; 50g \$25.00

## 4,4',4''-Tris(benzoyloxy)trityl Bromide

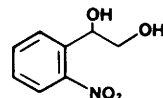


Used to introduce protection at the 5'-OH group of deoxynucleosides. The protecting group is a base-labile alternative to the acid-sensitive dimethoxytrityl (DMT) group.

Sekine, M.; Hata, T. *J. Org. Chem.* **1983**, *48*, 3011.

27,721-5 5g \$15.35; 25g \$51.20

## 1-(2-Nitrophenyl)-1,2-ethanediol



Acetals and ketals prepared with this diol can be photochemically deprotected to the corresponding carbonyl compounds.

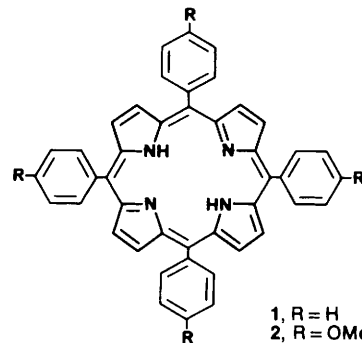
Gravel, D.; Hebert, J.; Thoraval, D. *Can. J. Chem.* **1983**, *61*, 400.

27,452-6 1g \$12.65; 5g \$42.20

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