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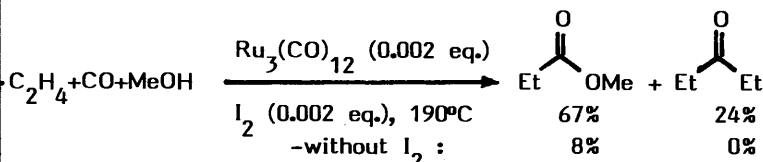
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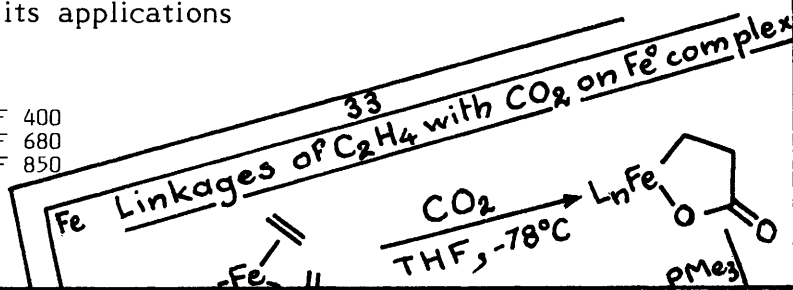
Bibliographic details

Ru Hydroesterification and hydroacylation of olefins.



HIDAI, M.; KOYASU, Y.; CHIKANARI, K. and UCHIDA, Y.
J. Mol. Catal., 1987, 40 (2), 243-254.

Ru Cationic metallocyclophanes.



HAZARDS IN THE CHEMICAL LABORATORY

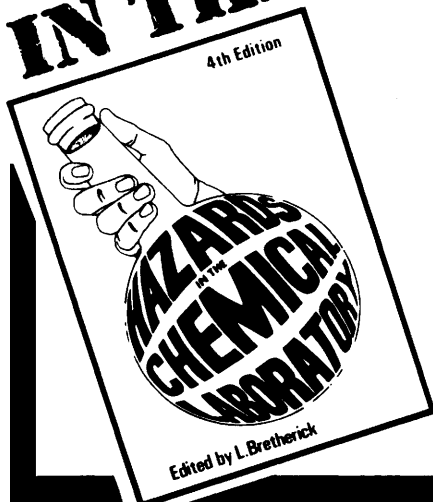
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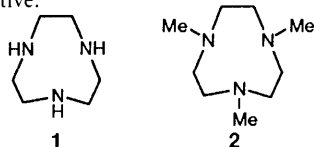
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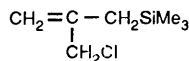
Prof. F.A. Cotton at Texas A & M University and Prof. S. Lippard at M.I.T. suggested that we offer the important ligands, 1,4,7-triazacyclononane and its trimethyl derivative.



Yang, R.; Zompa, L.J. *Inorg. Chem.* **1976**, *15*, 1499.
Gerald, C.F.G.C. *et al. ibid.* **1985**, *24*, 3876.

- 31,130-8** 1,4,7-Triazacyclononane, 97%
(1) 100mg \$17.50; 500mg \$58.00
- 31,129-4** 1,4,7-Trimethyl-1,4,7-triazacyclononane, 99% (2)
100mg \$19.50; 500mg \$64.25

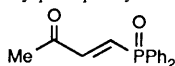
Prof. B. Trost, when at the University of Wisconsin, suggested that we offer 2-chloromethyl-3-trimethylsilyl-1-propene, a useful [3 + 2] annulation reagent.



Knapp, S.; O'Connor, O.; Mobile, D. *Tetrahedron Lett.* **1980**, *21*, 4557.

- 31,834-5** 2-Chloromethyl-3-trimethylsilyl-1-propene, 97%
1g \$18.00
5g \$60.00

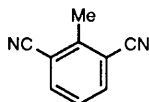
Prof. S.D. Darling at the University of Akron suggested an important dienophile, *trans*-4-diphenylphosphinyl-3-buten-2-one.



Darling, S.D.; Brandes, S.J. *J. Org. Chem.* **1982**, *47*, 1413.

- 31,022-0** *trans*-4-Diphenylphosphinyl-3-buten-2-one, 98%
1g \$7.00
5g \$22.00

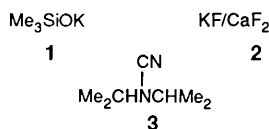
Prof. R.H. Mitchell at the University of Victoria suggested an interesting synthetic building block for trisubstituted benzenes.



Krizan, T.D.; Martin, J.C. *J. Org. Chem.* **1982**, *47*, 2681.

- 31,099-9** 2,6-Dicyanotoluene, 97%
5g \$18.00; 25g \$60.00

Prof. Ralph Raphael at Cambridge University made three really useful suggestions:



(1) An organic-solvent-soluble, completely anhydrous KOH equivalent.

Laganis, E.D.; Chenard, B.L. *Tetrahedron Lett.* **1984**, *25*, 5831.

- 32,486-8** Potassium trimethylsilanolate
25g \$10.00; 100g \$25.00

(2) A new fluorinating agent developed simultaneously in England and Japan.

Clark, J.H.; Hyde, A.J.; Smith, D.K. *Chem. Commun.* **1986**, 791. Ichihara, J.; Matsuo, T.; Hanafusa, T.; Ando, T. *ibid.* **1986**, 793.

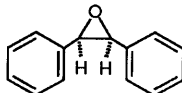
- 31,663-6** Potassium fluoride, 20 wt. % on calcium fluoride
25g \$11.50
100g \$30.00

(3) A stable, easily handled liquid reagent useful for the cyanation of organometallics.

Crossley, R.; Shepherd R.G. *J. Chem. Soc., Perkin Trans. 1* **1985**, 2479.

- 21,382-9** Diisopropylcyanamide, 97 + %
50g \$14.05; 250g \$44.25

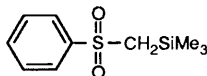
Prof. B.D. Hammock at the University of California at Davis suggested *cis*-stilbene oxide as a substrate for microsomal and cytosolic epoxide hydrolases, and for monitoring epoxide hydrolase activity.



Hammock, B.D. *et al. Methods Enzymol.* **1985**, *3*, 303.

- 30,832-3** *cis*-Stilbene oxide, 97%
1g \$19.50; 5g \$65.00

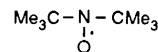
Dr. P.S. Jones at Imperial College in London suggested phenyl trimethylsilylmethyl sulfone for the preparation of vinyl sulfones from carbonyl compounds.



Craig, D.; Ley, S.V.; Simpkins, N.S. (Imperial College) and Whitham, G.D.; Prior, M.J. (Oxford University). *J. Chem. Soc., Perkin Trans. 1*, **1985**, 1949.

- 30,674-6** Phenyl trimethylsilylmethyl sulfone, 98%
5g \$8.25; 25g \$28.25

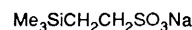
Prof. William Plachy at San Francisco State University suggested di-*tert*-butyl nitroxide, recently used in a spectral study of nitroxide solvation in pure and mixed solvents.



Symons, M.C.R.; Pena-Nunez, A.S. *J. Chem. Soc., Faraday Trans. 1*, **1985**, *81*, 2421.

- 30,072-1** Di-*tert*-butyl nitroxide
250mg \$10.05; 1g \$26.95

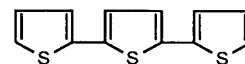
Prof. S.M. Weinreb of the Pennsylvania State University suggested an interesting protecting reagent.



Weinreb, S.M.; Demko, D.M.; Lessen, T.A. *Tetrahedron Lett.* **1986**, *27*, 2099.

- 30,793-9** 2-Trimethylsilylethanesulfonic acid, sodium salt
1g \$8.10; 5g \$27.00

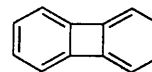
Prof. Jacques Kagan at the University of Illinois at Chicago suggested 2,2':5',2''-terthiophene (α -terthienyl), a natural product occurring in marigold, which displays enhanced nematocidal and antibiotic activity in the presence of UV light.



Kagan, J. *et al. J. Org. Chem.* **1982**, *47*, 2201. Kagan, J.; Arora, S.K. *Tetrahedron Lett.* **1983**, *24*, 4043. Wynnberg, H.; Metselaar, J. *Synth. Commun.* **1984**, *14*, 1.

- 31,107-3** 2,2':5',2''-Terthiophene, 99%
250mg \$18.50; 1g \$51.00

Prof. A.G. Davies at University College in London suggested that we offer biphenylene (1) of interest in the study of esr spectra; it was used recently in a study of electron-transfer rates between aromatics in a rigid solid.



1

Miller, J.R.; Beitz, J.V.; Huddleston, R.K. *J. Am. Chem. Soc.* **1984**, *106*, 5057.

- 32,195-8** Biphenylene, 99% (1)
100mg \$12.00

Also available:

- 32,441-8** 2-Biphenylencarboxylic acid, 97%
100mg \$16.00
- 32,439-6** 2-Acetylbiphenylene, 98%
100mg \$14.00

Naturally, we made them. It was no bother at all, just a pleasure to be able to help.



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