



New Reagents for Synthesis

Aldrich chemists are continually adding new products to the over 12,000 listed in our 1982-1983 Catalog/Handbook. Below is a sampling of our recent listings.

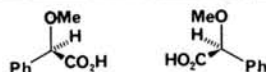


Diisopropyl cyanomethylphosphonate

α,β -Unsaturated nitrile synthon which gives a much improved *trans* to *cis* ratio (4.6:1) compared to the corresponding diethyl ester (2:1)

Dugger, R.W.; Heathcock, C.H. *Synth. Commun.* 1980, 10, 509.

24,648-4 5g \$12.50; 25g \$41.40



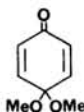
α -Methoxyphenylacetic acids

Derivatizing reagents for the NMR analysis of absolute stereochemistry;¹ synthesis of chiral phosphine ligands²

(1) Trost, B.M.; Curran, D.P. *Tetrahedron Lett.* 1981, 22, 4929, and refs. 11 and 12 cited therein. (2) Valentine, Jr., D. et al. *J. Org. Chem.* 1980, 45, 3698.

24,896-7 (R)-(-)- 1g \$18.50

24,898-3 (S)-(+)- 1g \$18.50

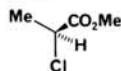


4,4-Dimethoxy-2,5-cyclohexadien-1-one

Versatile synthetic intermediate

Buchanan, G.L. et al. *J. Chem. Soc., Perkin Trans. 1*, 1973, 373.

25,000-7 1g \$14.50; 5g \$48.25

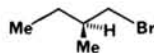


(S)-(-)-Methyl 2-chloropropionate

Synthesis of optically active, herbicidal, aryloxypropionic acids

Koch, M.; Herbrechtsmeier, P. Eur. Pat. Appl. 30 251, 1981; *Chem. Abstr.* 1981, 95, 115076h. Nestler, H.J. Ger. Offen. 2 949 728, 1981; *Chem. Abstr.* 1981, 95, 132515t. Gras, G. Ger. Offen. 3 024 265, 1981; *Chem. Abstr.* 1981, 94, 191956q.

24,703-0 5g \$19.50

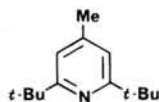


(S)-(+)-1-Bromo-2-methylbutane

Synthesis of chiral, nematic liquid crystals,¹ optically active Grignard reagents,² and a component of an ant alarm pheromone³

(1) Heppke, G. et al. *Chem. Ber.* 1981, 114, 2501. (2) Wagner, P.J. et al. *J. Am. Chem. Soc.* 1976, 98, 8125. (3) Rossi, R.; Salvadori, P.A. *Synthesis* 1979, 209.

25,002-3 1g \$7.90; 5g \$34.50

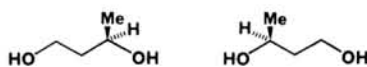


2,6-Di-tert-butyl-4-methylpyridine

Hindered base useful for the synthesis of vinyl triflates

Stang, P.J.; Treptow, W. *Synthesis*, 1980, 283.

24,950-5 5g \$29.75; 25g \$99.20



1,3-Butanediols

Synthesis of (R)- and (S)-chairphos, ligands for the preparation of asymmetric catalysts

Kagan, H.B. et al. *Bull. Soc. Chim. Belg.* 1979, 88, 923. MacNeil, P.A. et al. *J. Am. Chem. Soc.* 1981, 103, 2273.

23,761-2 (R)-(-)- 1g \$12.00

5g \$40.00

23,762-0 (S)-(+)- 1g \$12.00

5g \$40.00

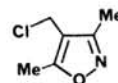


1-(Dimethylamino)pyrrole

Intermediate for 2-acylpyrrole syntheses

Grieco, P.A. et al. *J. Am. Chem. Soc.* 1982, 104, 1436.

24,779-0 5g \$9.40; 25g \$31.25

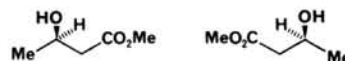


4-(Chloromethyl)-3,5-dimethylisoxazole

Synthesis of steroids,¹ substituted hydroazulenes,² and insecticides³

(1) Saucy, G.; Scott, J.W. U.S. Patent 3 984 428, 1976; *Chem. Abstr.* 1977, 86, 90129b. (2) Kretchmer, R.A.; Schafer, W.M. *J. Org. Chem.* 1973, 38, 95. (3) Beresford, C. et al. Brit. Patent 1 261 158, 1972; *Chem. Abstr.* 1978, 88, 37782z.

24,731-6 1g \$12.50; 5g \$45.00



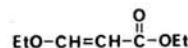
Methyl 3-hydroxybutyrate

(R)-isomer used in the total synthesis of carbomycin B and leucomycin A₃, 16-membered-ring macrolide antibiotics

Nicolaou, K.C. et al. *J. Am. Chem. Soc.* 1981, 103, 1224.

24,315-9 (R)-(-)- 1g \$20.00

24,316-7 (S)-(+)- 1g \$20.00

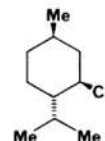


Ethyl 3-ethoxyacrylate

Heterocyclic building block

Tadamo, K. et al. *Bull. Chem. Soc. Jpn.* 1978, 51, 897; Sheally, Y.F.; O'Dell, C.A. *J. Heterocycl. Chem.* 1976, 13, 1015.

25,012-0 1g \$10.70; 5g \$35.70



(-)-Menthyl chloride

Preparation of ligands for asymmetric hydrogenation catalysts

Valentine, Jr., D. et al. *J. Org. Chem.* 1980, 45, 3698.

24,924-6 1g \$7.00; 10g \$55.00



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