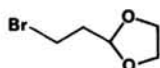




New Reagents - New Reactions

The Aldrich R & D Department is constantly adding new products to the over 12,000 listed in our Catalog/-Handbook. Many of these new products are synthesized in response to customer suggestions and inquiries which we always welcome. Below are several of our recent listings.



2-(2-Bromoethyl)-1,3-dioxolane

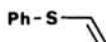
Synthesis of useful Grignard and Wittig reagents

Büchi, G.; Wüest, H. *J. Org. Chem.* **1969**, *34*, 1122.

Loosen, H.J.J. *ibid.* **1975**, *40*, 520.

Roush, W.R. *et al. J. Am. Chem. Soc.* **1982**, *104*, 2269.

23,099-5 10g \$16.50; 50g \$54.85



Phenyl vinyl sulfide

Aldehyde and ketone syntheses via Michael-type addition of organolithium reagents

Ager, D.J. *Tetrahedron Lett.* **1981**, *22*, 587.

Cookson, R.C.; Parsons, P.J. *Chem. Commun.* **1978**, 821.

22,647-5 1g \$7.00; 5g \$23.50



4-Hexen-1-ol, predominantly *trans*

Versatile synthetic intermediate

Bestmann, H.J. *et al. Justus Liebigs Ann. Chem.* **1981**, 1705.

23,760-4 5g \$19.75; 25g \$65.85

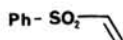


Azidomethyl phenyl sulfide

Synthesis of aromatic amines from aryl Grignard reagents

Trost, B.M.; Pearson, W.H. *J. Am. Chem. Soc.* **1981**, *103*, 2483.

24,454-6 1g \$7.80; 10g \$43.40



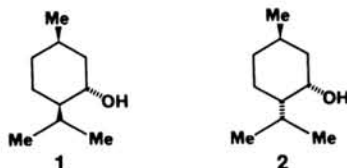
Phenyl vinyl sulfone

Ethylene and terminal olefin equivalent for Diels-Alder cycloadditions¹ and for Michael-type addition of enolate anions²

1) Paquette, L.A.; Carr, R.V.C. *J. Am. Chem. Soc.* **1980**, *102*, 853.

2) Cory, R.M.; Renneboog, R.M. *Chem. Commun.* **1980**, 1081.

24,171-7 1g \$11.35; 5g \$37.80



(+)-Menthols

Acetic acid derivative of (+)-isomenthol (1) useful as a resolving agent.¹ (+)-Neomenthol (2) used in the synthesis of optically active silanes² and chiral transition-metal complexes³

1) Kane, B.J.; Traynor, S.G. U.S. Patent 4 196 303, 1980; *Chem. Abstr.* **1980**, *93*, 239701m.

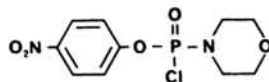
2) Richter, W.J. *J. Organometal. Chem.* **1979**, *169*, 9. 3) Cesarotti, E.; Kagan, H.B.; Goddard, R.; Krueger, C. *ibid.* **1978**, *162*, 297.

24,219-5 (+)-Isomenthol

50g \$8.00; 250g \$18.50

23,518-0 (+)-Neomenthol

5g \$19.20; 25g \$80.00

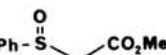


4-Nitrophenyl 4-morpholinyl-phosphonochloridate

Phosphorylating agent in the synthesis of 5'-phosphorylated ribonucleosides and RNA fragments

den Hartog, J.A.J.; van Boom, J.H. *Recl. Trav. Chim. Pays-Bas* **1981**, *100*, 285.

24,213-6 1g \$7.50; 5g \$25.00



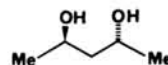
di-Methyl (phenylsulfinyl)acetate

Synthesis of unsaturated esters¹ including methyl cyclobutene-1-carboxylate²

1) Cass, Q.B. *et al. Chem. Commun.* **1981**, 1248.

2) Wilson, S.R. *et al. J. Am. Chem. Soc.* **1979**, *101*, 7373.

23,758-2 1g \$6.25; 5g \$20.75



(2R,4R)-(-)-Pentanediol

Synthesis of (-)-BDPOP and other chiral ligands for the preparation of asymmetric hydrogenation catalysts

Bakos, J.; Toth, I.; Marko, L. *J. Org. Chem.* **1981**, *46*, 5427.

24,317-5 1g \$20.00



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