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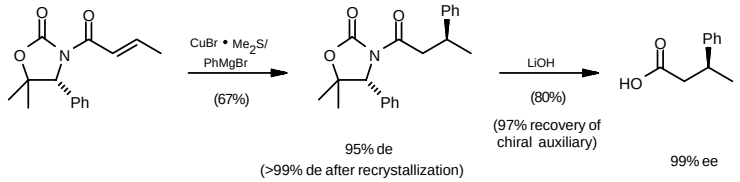
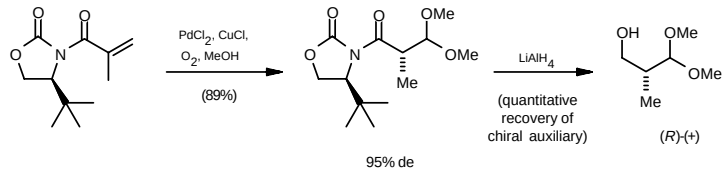
Oxazolidinones for Asymmetric Synthesis

Oxazolidinones are versatile chiral auxiliaries that are easily recycled under mild conditions, thus enhancing their commercial potential. Aldrich offers these chiral auxiliaries in **research** and **bulk** quantities. A few applications are the synthesis of β-lactams,[1] nonproteogenic α-amino acids,[2] aranorosin antibiotics,[3] indole-2-acetamide inhibitors,[4] and halichomycin.[5] Other recent applications are shown below.

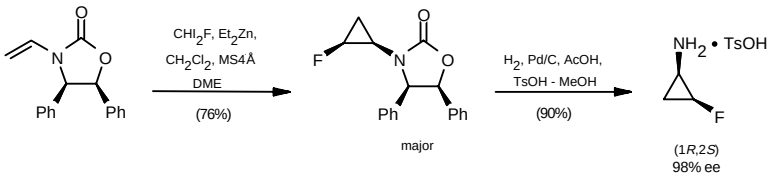
Diastereoselective Michael Additions[6]



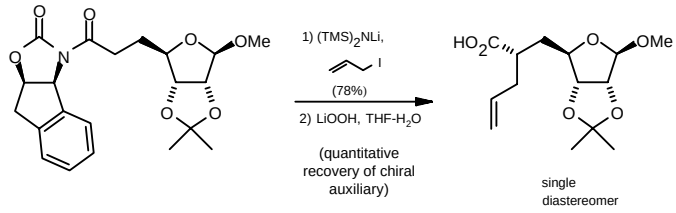
Pd(II)-Catalyzed Acetalization of Alkenes[7]



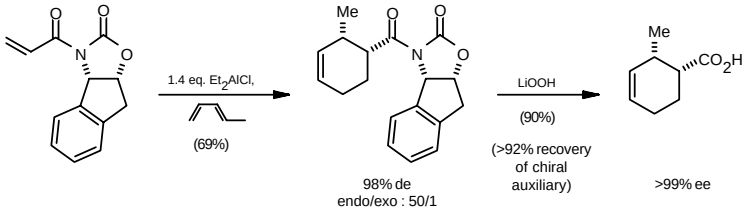
Cyclopropanations[8]



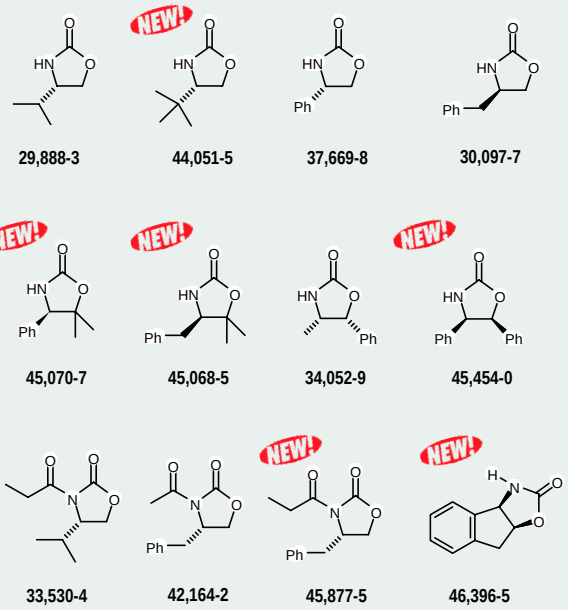
Allylations[9]



Diels-Alder Reactions[10]



References: (1) Palomo, C. et al. *J. Org. Chem.* **1996**, *61*, 9186. (2) Quian, X. et al. *Tetrahedron* **1995**, *51*, 1033. (3) McKillop, A. et al. *J. Chem. Soc., Perkin Trans. 1* **1996**, 1385. (4) Draheim, S.E. et al. *J. Med. Chem.* **1996**, *39*, 5159. (5) McCann, E.E. et al. *Tetrahedron Lett.* **1997**, *38*, 303. (6) Davies, S.G.; Sanganee, H.J. *Tetrahedron: Asymmetry* **1995**, *6*, 671. (7) Hosokawa, T. et al. *J. Org. Chem.* **1995**, *60*, 6159. (8) Akiba, T. et al. *Tetrahedron* **1994**, *50*, 3905. (9) Ghosh, A.K.; Liu, W. *J. Org. Chem.* **1996**, *61*, 6175. (10) Davies, I.W. et al. *Tetrahedron Lett.* **1995**, *36*, 7619.



29,888-3 **(*S*)-(–)-4-Isopropyl-2-oxazolidinone,** 99% (99%ee)

33,994-6 **(*R*)-(+)-4-Isopropyl-2-oxazolidinone,** 99% (99%ee)

44,051-5 NEW! **(*S*)-(–)-4-*tert*-Butyl-2-oxazolidinone,** 99%

37,669-8 **(*S*)-(+)-4-Phenyl-2-oxazolidinone,** 98% (99%ee)

40,245-1 **(*R*)-(–)-4-Phenyl-2-oxazolidinone,** 98% (99%ee)

30,097-7 **(*R*)-(+)-4-Benzyl-2-oxazolidinone,** 99% (99%ee)

29,464-0 **(*S*)-(–)-4-Benzyl-2-oxazolidinone,** 99% (99%ee)

45,070-7 NEW! **(*R*)-(–)-5,5-Dimethyl-4-phenyl-2-oxazolidinone,** 98%

45,071-5 NEW! **(*S*)-(+)-5,5-Dimethyl-4-phenyl-2-oxazolidinone,** 98%

45,068-5 NEW! **(*R*)-(+)-4-Benzyl-5,5-dimethyl-2-oxazolidinone,** 98%

45,069-3 NEW! **(*S*)-(–)-4-Benzyl-5,5-dimethyl-2-oxazolidinone,** 98%

34,052-9 **(4*S*,5*R*)-(–)-4-Methyl-5-phenyl-2-oxazolidinone,** 99% (99%ee)

29,889-1 **(4*R*,5*S*)-(+)-4-Methyl-5-phenyl-2-oxazolidinone,** 99% (99%ee)

45,454-0 NEW! **(4*R*,5*S*)-(+)-*cis*-4,5-Diphenyl-2-oxazolidinone,** 98%

33,530-4 **(*S*)-(+)-4-Isopropyl-3-propionyl-2-oxazolidinone,** 98%

42,164-2 **(*S*)-(+)-3-Acetyl-4-benzyl-2-oxazolidinone,** 99%

45,877-5 NEW! **(*S*)-(+)-4-Benzyl-3-propionyl-2-oxazolidinone,** 99%

46,396-5 NEW! **(3a*R*-*cis*)-(+)-3,3a,8,8a-Tetrahydro-2*H*-indeno[1,2-*d*]-oxazol-2-one,** 97%

46,397-3 NEW! **(3a*S*-*cis*)-(–)-3,3a,8,8a-Tetrahydro-2*H*-indeno[1,2-*d*]-oxazol-2-one,** 98%