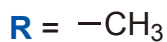
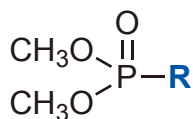


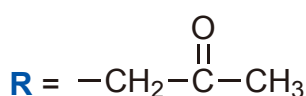
ホルナー - エモンズ試薬



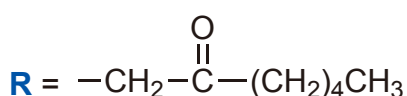
25g 2,600円
[M0943]



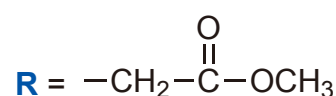
5g 8,000円 / 25g 27,800円
[H0779]



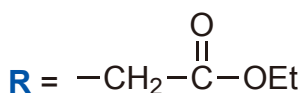
5g 13,100円 / 25g 42,800円
[O0208]



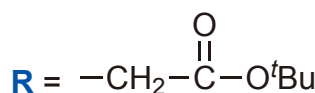
1g 8,500円 / 5g 34,000円
[D4244]



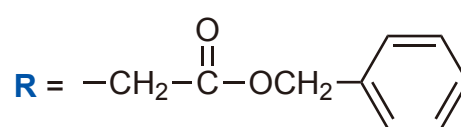
25g 6,500円 / 250g 31,700円
[P1265]



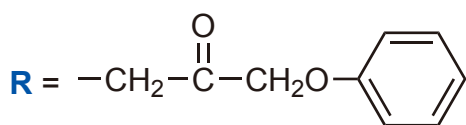
25g 8,900円
[E1160]



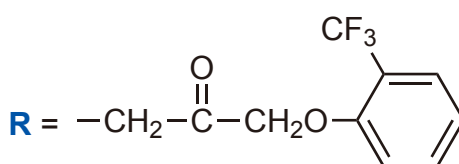
5g 4,100円 / 25g 14,000円
[B5094]



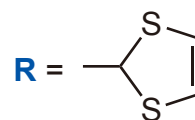
1g 4,200円 / 5g 13,500円
[B2815]



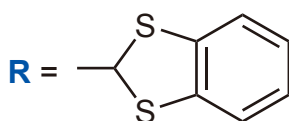
200mg 8,900円 / 1g 31,000円
[D4408]



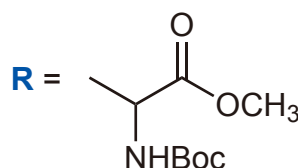
1g 35,700円
[D4397]



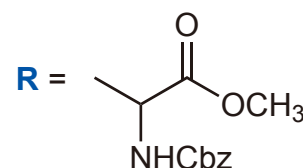
1g 20,100円 / 5g 70,100円
[D3981]



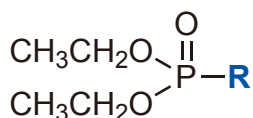
1g 13,700円
[D3992]



1g 5,600円 / 5g 19,500円
[B4011]

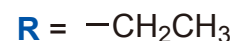


1g 7,000円 / 5g 21,800円
[C2440]



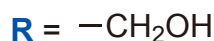
5g 8,000円 / 25g 27,900円

[D3827]



25g 10,100円

[E0483]



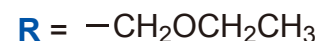
25g 14,800円 / 100g 43,800円

[D3813]



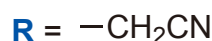
5g 8,900円 / 25g 25,500円

[D3873]



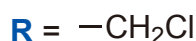
5g 7,600円 / 25g 26,800円

[D5095]



5g 3,000円 / 25g 8,700円

[C1430]



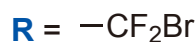
1g 9,700円 / 5g 33,800円

[D4588]



5g 12,900円 / 25g 45,200円

[D4607]



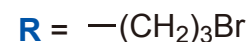
5g 8,600円 / 25g 29,800円

[D3071]



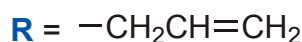
5g 5,500円 / 25g 16,300円

[B1781]



1g 5,200円 / 5g 16,700円

[D4434]



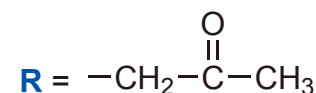
1g 3,500円 / 5g 9,400円

[D3069]



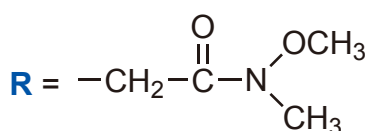
5g 6,400円 / 25g 21,500円

[M1208]



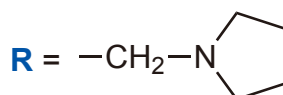
5g 12,900円 / 25g 45,000円

[D3174]



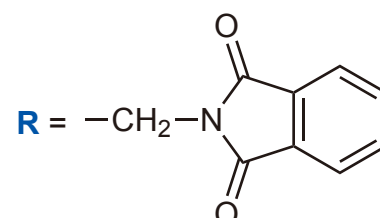
1g 7,200円 / 5g 21,600円

[D3708]



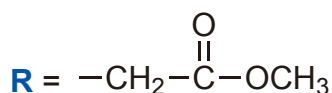
5g 7,700円

[P1258]



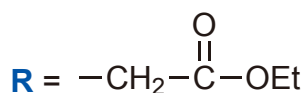
5g 7,900円 / 25g 23,900円

[P1193]



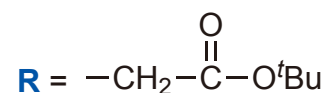
5g 4,400円 / 25g 15,600円

[D2873]



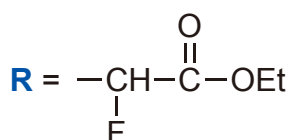
25g 1,800円 / 100g 4,400円 / 500g 9,900円

[D1523]



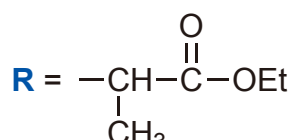
1g 5,200円 / 5g 17,800円

[B2814]



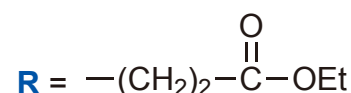
1g 4,800円 / 5g 15,100円

[F0340]



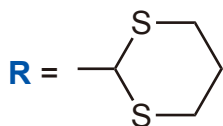
5g 3,700円 / 25g 12,900円

[T2135]

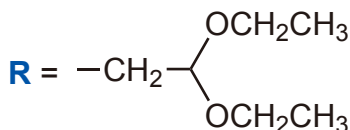


25g 9,000円 / 250g 43,600円

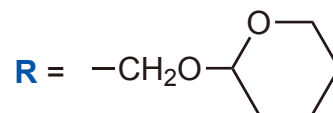
[D1524]



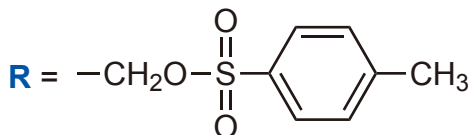
5g 11,900円
[D4074]



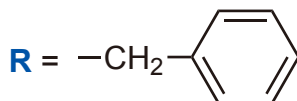
5g 9,300円 / 25g 25,900円
[D2423]



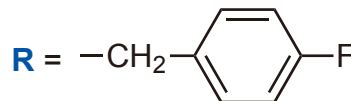
200mg 7,000円 / 1g 24,500円
[D4611]



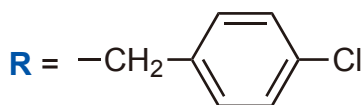
25g 5,800円
[D4968]



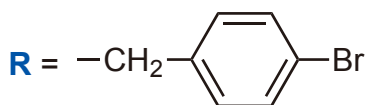
25g 7,500円
[B1795]



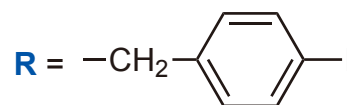
5g 12,700円 / 25g 39,500円
[D3324]



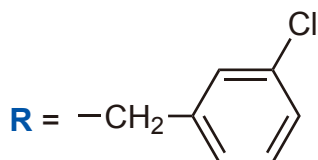
5g 6,200円 / 25g 22,000円
[D3335]



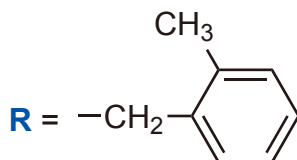
5g 8,900円 / 25g 23,800円
[D3688]



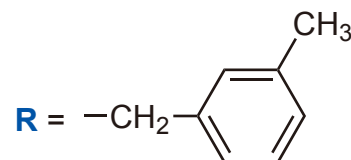
5g 10,300円 / 25g 33,400円
[D3689]



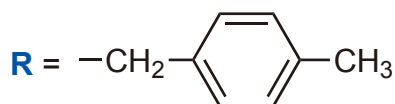
1g 6,200円 / 5g 17,900円
[C1595]



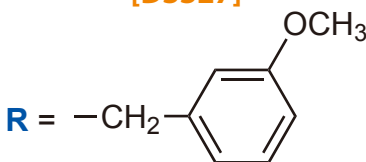
5g 8,900円 / 25g 30,400円
[D3327]



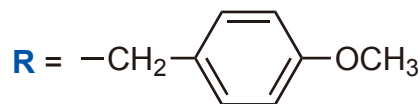
5g 10,100円 / 25g 33,900円
[D3328]



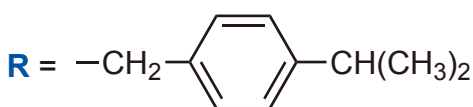
5g 4,300円 / 25g 14,500円
[D3336]



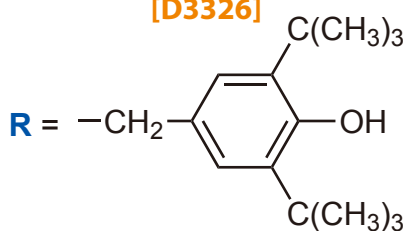
5g 9,600円 / 25g 28,500円
[D3326]



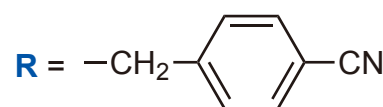
5g 5,800円 / 25g 18,200円
[D4000]



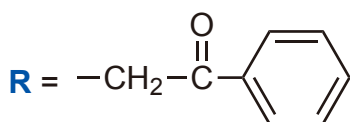
5g 25,500円
[D3325]



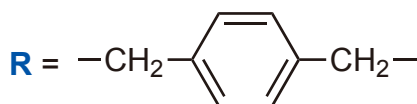
1g 9,800円 / 5g 29,800円
[D2967]



5g 14,300円 / 25g 46,600円
[D3323]



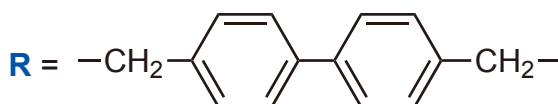
1g 5,000円 / 5g 17,300円
[D3339]



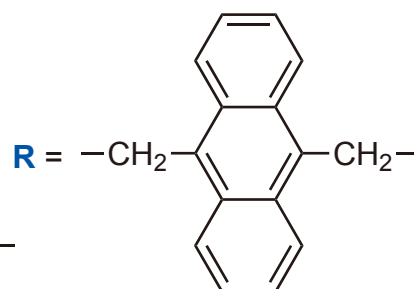
5g 4,300円 / 25g 12,500円 / 100g 37,300円
[T1582]



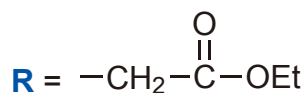
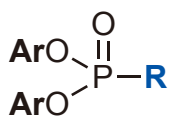
5g 10,900円
[T2294]



1g 5,600円 / 5g 16,700円
[B1923]



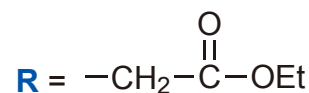
1g 10,100円 / 5g 27,100円
[B2801]



Ar = Ph

1g 22,300円 / 5g 68,000円

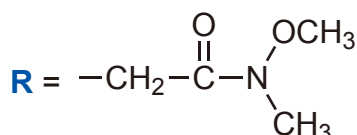
[D2547]



Ar = o-Tolyl

1g 19,200円

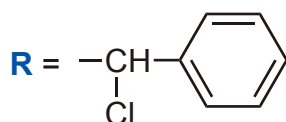
[D2548]



Ar = Ph

1g 12,400円 / 5g 43,100円

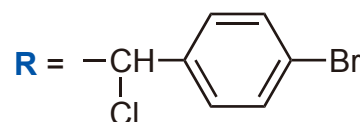
[D3709]



Ar = Ph

1g 7,000円 / 5g 20,800円

[D3824]



Ar = Ph

5g 18,100円 / 25g 36,100円

[D3875]

Z選択的ホルナー-エモンズ反応



| Reagent | R | Yield (%) | (Z : E) |
|---------|----------------------------|-----------|---------|
| D2547 | Ph | 98 | 93:7 |
| | $n\text{C}_7\text{H}_{15}$ | 100 | 90:10 |
| D2548 | Ph | 100 | 96:4 |
| | $n\text{C}_7\text{H}_{15}$ | 97 | 94:6 |

K. Ando, *Tetrahedron Lett.* **1995**, 36, 4105; K. Ando, *J. Org. Chem.* **1997**, 62, 1934.

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東京化成工業株式会社

■本社営業部 〒103-0023 東京都中央区日本橋本町4-10-2 TCIビル2階
Tel: 03-3668-0489 Fax: 03-3668-0520
E-mail: Sales-JP@TCIchemicals.com

■大阪営業部 〒541-0041 大阪府大阪市中央区北浜1-1-21 第2中井ビル1階
Tel: 06-6228-1155 Fax: 06-6228-1158
E-mail: osaka-s@TCIchemicals.com

□化成部品 〒103-0023 東京都中央区日本橋本町4-10-1
Tel: 03-5651-5171 Fax: 03-5640-8021
E-mail: finechemicals@TCIchemicals.com

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