Et

N

1) KH, TsCl

L

C₂₁H₂₅NO₃S

2) NaClO₂, NaH₂PO₄
2-methyl-2-butene

1) (COCl)₂

2) AlCl₃

C₂₁H₂₁NO₃S

N

C₂₁H₂₁NO₃S

Ph₃P⁺Mel⁻

C₂₂H₂₃NO₂S

double bond hydrogenation

P

C₂₂H₂₅NO₂S

$$C_{15}H_{19}N$$

(+)-trikentrin A

TsCl =
$$p$$
-toluenesulfonyl chloride ; TPAP = $(C_3H_7)_4NRuO_4$

9-BBN =
$$NMO = N^{+}$$
 TBAF = tetra-*n*-butylammonium fluoride