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Triethylamine (1), which is often employed, leads to more racemization than does 3\textsuperscript{4} and diisopropylethylamine (DIEA, 2) is too sterically hindered to be useful in this reaction.

**Neutralization**

Neutralization of an α-ammonium salt after acylolytic removal of the protecting group (BOC, CBz, etc.) is another important process requiring a tertiary amine. This is particularly true in SPPS where repetitive addition of reagents requires neutralization in a regulated stepwise fashion. Triethylamine was used as the base in the original SPPS; however, DIEA has become much more widely used because it minimizes the possibility of quaternary ammonium salt formation on halomethyl supports. Amines should be pure for these applications and stock solutions of amines should be made fresh daily.

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