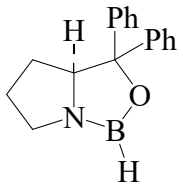
>>**Entry Name: Tetrahydro-3,3-diphenyl-1*H*,3*H*-pyrrolo[1,2-*c*][1,3,2]oxazaborole**
ENTRY UNDER REVIEW



(*S*)-*form*

Related CAS Registry Numbers(s): 112022-83-0 121944-12-5 133261-83-3 141197-93-5

Molecular Formula: $C_{17}H_{18}BNO$
Molecular Weight: 263.146
Accurate Mass: 263.148144
Percentage Composition: C 77.59%; H 6.89%; B 4.11%; N 5.32%; O 6.08%

>>**Variant:** (*S*)-form

CAS Registry Number: 110205-59-9
Molecular Formula: $C_{17}H_{18}BNO$
Molecular Weight: 263.146
Accurate Mass: 263.148144
Percentage Composition: C 77.59%; H 6.89%; B 4.11%; N 5.32%; O 6.08%
Use/Importance: Catalyst for enantioselective ketone redn.
Physical Description: Cryst. (THF or by subl.)
Melting Point: Mp 107-124°
Boiling Point: $Bp_{0.05}$ 145-160° subl.
Solubility: Sol. THF
Other Data: Ir ν_{B-H} 2568 cm^{-1}(THF)

>>**Derivative:** Dimer

Molecular Formula: $C_{34}H_{36}B_2N_2O_2$
Molecular Weight: 526.293
Accurate Mass: 526.296288
Percentage Composition: C 77.59%; H 6.89%; B 4.11%; N 5.32%; O 6.08%
Other Data: Ir ν_{B-H} 2413 cm^{-1}

>>**Derivative:** *B*-Me
Synonym(s): Tetrahydro-1-methyl-3,3-diphenyl-1*H*,3*H*-pyrrolo[1,2-*c*][1,3,2]oxazaborole. Corey catalyst. Me CBS

CAS Registry Number: 112022-81-8
Source/Synthesis: Synth. from (*S*)-diphenylprolinol + trimethylboroxine
Use/Importance: Catalyst for enantioselective redn. of ketones by BH_3
Physical Description: Solid
Melting Point: Mp 79-81°
Other Data: (*R*)-isomer also known
Aldrich: 45770-1
Other: Callery

>>**Derivative:** *B*-Butyl

CAS Registry Number: 129145-37-5
Molecular Formula: $C_{21}H_{26}BNO$
Molecular Weight: 319.254
Accurate Mass: 319.210744
Percentage Composition: C 79.01%; H 8.21%; B 3.39%; N 4.39%; O 5.01%
Source/Synthesis: Synth. from (*S*)-diphenylprolinol + tributylboroxine
Use/Importance: Catalyst for enantioselective redn. of ketones by BH_3
Physical Description: Oil