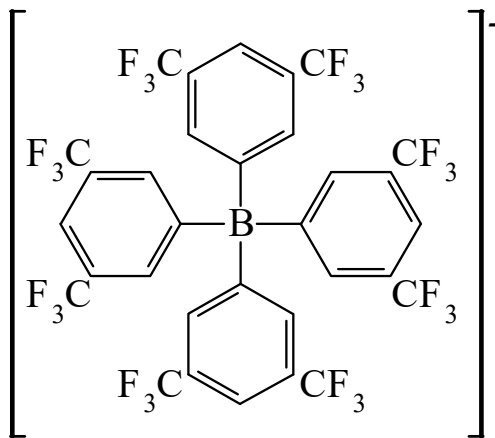




>>Entry Name: Tetrakis[3,5-bis(trifluoromethyl)phenyl]borate(1-)

Synonym(s): TFPB⁻



CAS Registry Number: 79230-20-9

Molecular Formula: C₃₂H₁₂BF₂₄⁽⁻⁾

Molecular Weight: 863.219

Accurate Mass: 863.064877

Percentage Composition: C 44.53%; H 1.40%; B 1.25%; F 52.82%

>>Derivative: Na salt

CAS Registry Number: 79060-88-1

Molecular Formula: C₃₂H₁₂BF₂₄Na

Molecular Weight: 886.209

Percentage Composition: C 43.37%; H 1.36%; B 1.22%; F 51.45%; Na 2.59%

Source/Synthesis: Synth. from 3,5-(F₃C)₂C₆H₃Br/Mg + NaBF₄ in Et₂O

Physical Description: Light brown solid

Aldrich: 45820-1

Fluka: 72017

>>Derivative: Tl(I) salt

CAS Registry Number: 188019-19-4

Extra CAS Registry Numbers(s): 188019-20-7

Molecular Formula: C₃₂H₁₂BF₂₄Tl

Molecular Weight: 1067.603

Accurate Mass: 1068.039278

Percentage Composition: C 36.00%; H 1.13%; B 1.01%; F 42.71%; Tl 19.14%

Source/Synthesis: Synth. from the oxonium salt + TlOEt

Use/Importance: An anhyd. source of the TFPB⁽⁻⁾ anion

Physical Description: Air- and light-stable cryst. 1/3 CH₂Cl₂ + (CH₂Cl₂/hexanes)

Solubility: Sol. Me₂CO, Et₂O, CH₂Cl₂, MeOH; insol. hexane, H₂O

>>Derivative: Triphenylmethyl salt

Synonym(s): Trityl tetrakis[3,5-bis(trifluoromethyl)phenyl]borate

CAS Registry Number: 141431-41-6

Molecular Formula: C₅₁H₂₇BF₂₄

Molecular Weight: 1106.547

Accurate Mass: 1106.182252

Percentage Composition: C 55.36%; H 2.46%; B 0.98%; F 41.21%

Source/Synthesis: Synth. from the Na salt and Ph₃COTf

Use/Importance: Hydride extraction agent

Physical Description: Air-sensitive bright yellow cryst. (CH₂Cl₂/hexane); stable in soln. under inert atm.

Melting Point: Mp 191-193°