



>>Entry Name: Trifluorophenylborate(1-), ¹³C

[PhBF₃]⁽⁻⁾

Molecular Formula: C₆H₅BF₃⁽⁻⁾

Molecular Weight: 144.912

Accurate Mass: 145.043639

Percentage Composition: C 49.73%; H 3.48%; B 7.46%; F 39.33%

>>Derivative: K salt

CAS Registry Number: 153766-81-5

Molecular Formula: C₆H₅BKF₃

Molecular Weight: 184.01

Percentage Composition: C 39.16%; H 2.74%; B 5.88%; K 21.25%; F 30.97%

Source/Synthesis: Synth. from aq. Phenyldihydroxyborane [GGH09-T](#) + KHF₂

Physical Description: Colourless cryst. (MeCN or H₂O)

Melting Point: Mp 296 dec.°

Solubility: Sol. H₂O

Other Data: B-C 161 pm

References:

Conole, G. *et al.*, *Acta Cryst. C*, 1995, **51**, 1056, (*synth, cryst struct*)

Vedejs, E. *et al.*, *J.O.C.*, 1995, **60**, 3020, (*synth, pmr, B-11 nmr, F-19 nmr*)