



>>Entry Name: Tetrakis(4-fluorophenyl)borate(1-), 12Cl

CAS Registry Number: 75964-78-2

As Tetrakis(4-chlorophenyl)borate(1-), [FHS55-D](#) with
X = F

Molecular Formula: $C_{24}H_{16}BF_4^{(-)}$

Molecular Weight: 391.195

Accurate Mass: 391.128117

Percentage Composition: C 73.69%; H 4.12%; B 2.76%; F 19.43%

>>Derivative: Li salt

CAS Registry Number: 68140-33-0

Molecular Formula: $C_{24}H_{16}BF_4Li$

Molecular Weight: 398.136

Accurate Mass: 398.14412

Percentage Composition: C 72.40%; H 4.05%; B 2.72%; F 19.09%; Li 1.74%

Use/Importance: Used in battery electrolytes

>>Derivative: Na salt

CAS Registry Number: 25776-12-9

Molecular Formula: $C_{24}H_{16}BF_4Na$

Molecular Weight: 414.185

Accurate Mass: 414.117884

Percentage Composition: C 69.60%; H 3.89%; B 2.61%; F 18.35%; Na 5.55%

Use/Importance: Used as 1% aq. soln. for gravimetric detn. of Cs; pptn. of Ag, Cs, Rb, Tl(I). Used as ion exchanger

Physical Description: Cryst.

References:

Moore, C.E. *et al.*, *Anal. Chim. Acta*, 1966, **35**, 1, (*synth, use*)

Ger. Pat., 1979, 2 901 367; *CA*, **92**, 61799p, (*use*)

U.S. Pat., 1979, 4 139 681; *CA*, **90**, 207210x, (*use*)

Horowitz, H.H. *et al.*, *Proc. Electrochem. Soc.*, 1981, **81**, 131

Yu, B., *Biosensors*, 1989, **4**, 373, (*synth*)