>>**Entry Name: Tetraiodomercurate(2–)**

CAS Registry Number: 14876-64-3
$[HgI_4]^{2(-)}$

Molecular Formula: $HgI_4^{2(-)}$
Molecular Weight: 708.208
Accurate Mass: 709.588509
Percentage Composition: Hg 28.32%; I 71.68%

>>**Derivative:** Di-K salt
Synonym(s): Dipotassium tetraiodomercurate. Potassium mercuric iodide

CAS Registry Number: 7783-33-7

Molecular Formula: HgI_4K_2
Molecular Weight: 786.405
Accurate Mass: 787.515923
Percentage Composition: Hg 25.51%; I 64.55%; K 9.94%
Use/Importance: Dil. soln. in NaOH is *Nessler's reagent*, used for $NH_4^{(+)}$ analysis
Biological Use/Importance: Antiseptic
Aldrich: 34514-8
Fluka: 72190

>>**Derivative:** Di-K salt, bis(dibenzo-18-crown-6) complex

Physical Description: Cryst.

>>**Derivative:** Bis-Me_4N salt

CAS Registry Number: 33615-18-8
Physical Description: Cryst.

References:

Mok, K.F.*, Inorg. Chim. Acta*, 1988, **142**, 27, *(synth, ir, pmr)*
Pakhomov, V.I. *et al.*, *Zh. Neorg. Khim.*, 1991, **36**, 150, *(synth, cryst struct)*
Lewis, R.J.*, Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, NCP500