



>>Entry Name: Tetrakis(thiocyanato-*S*)mercurate(2-)

Synonym(s): Tetrathiocyanatomercurate(2-)

CAS Registry Number: 17845-33-9

$[\text{Hg}(\text{SCN})_4]^{2(-)}$

Molecular Formula: $\text{C}_4\text{HgN}_4\text{S}_4^{2(-)}$

Molecular Weight: 432.925

Accurate Mass: 433.871193

Percentage Composition: C 11.10%; Hg 46.33%; N 12.94%; S 29.63%

>>Derivative: Di-K salt

CAS Registry Number: 14099-12-8

Physical Description: Cryst.

>>Derivative: Di-K, bis-dibenzo-18-crown-6 complex, EtOH solvate

CAS Registry Number: 120062-65-9

Physical Description: Cryst.

>>Derivative: K, bis(ethylenedithio)tetrathiafulvalene salt

CAS Registry Number: 123341-38-8

Use/Importance: Metallic down to 1.5K

Physical Description: Cryst.

Other Data: Struct. comprises alternate stacks of 2D network of (BEDT-TTF) units and of $[\text{KHg}(\text{SCN})_4]^{(-)}$ anions

>>Derivative: Di-Rb salt

CAS Registry Number: 52139-49-8

Physical Description: Cryst.

>>Derivative: Di-Cs salt

CAS Registry Number: 29993-48-4

Physical Description: Cryst.

>>Derivative: Sr salt, trihydrate

CAS Registry Number: 86525-95-3

Physical Description: Cryst.

Other Data: Tetrahedral $\text{Hg}(\text{SCN})_4$ and tricapped trigonal prismatic Sr (latter coord. to 4N + 5O)

>>Derivative: Diaquacobalt(2+) salt, bis-2-pyrrolidinone complex

CAS Registry Number: 110219-65-3

Physical Description: Cryst.

Other Data: Struct. comprises polymeric chains of $[\text{Hg}(\text{SCN})_4(\text{H}_2\text{O})_2\text{Co}]$ with tetrahedral $\text{Hg}(\text{SCN})_4$; octahedral Co $[4\text{NCS} + 2\text{OH}_2]$ and *trans* bridging CNS. 2-Pyrrolidinone groups are merely H-bonded to H_2O

>>Derivative: Bis(dimethyl sulfoxide-*O*)cobalt(2+) salt

CAS Registry Number: 117355-43-8

Physical Description: Cryst.

Other Data: Tetrahedral Hg and octahedral Co $[2\text{O}(\textit{trans}) + 4\text{NCS}]$

>>Derivative: Di- NH_4 salt

Physical Description: Cryst.

References: