



>>Entry Name: Tetrakis(cyano-C)cadmate(2-)

Synonym(s): Tetracyanocadmate(2-)

CAS Registry Number: 16041-14-8

Related CAS Registry Numbers(s): 37286-73-0

$[\text{Cd}(\text{CN})_4]^{2(-)}$

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

Molecular Weight: 216.482

Accurate Mass: 217.915653

Percentage Composition: C 22.19%; Cd 51.93%; N 25.88%

>>Derivative: Di-K salt

CAS Registry Number: 14402-75-6

Molecular Formula: $\text{C}_4\text{CdK}_2\text{N}_4$

Molecular Weight: 294.678

Accurate Mass: 295.843067

Percentage Composition: C 16.30%; Cd 38.15%; K 26.54%; N 19.01%

Physical Description: Cryst.

>>Derivative: Di-Cs salt

CAS Registry Number: 15634-22-7

Molecular Formula: $\text{C}_4\text{CdCs}_2\text{N}_4$

Molecular Weight: 482.293

Accurate Mass: 483.726511

Percentage Composition: C 9.96%; Cd 23.31%; Cs 55.11%; N 11.62%

Physical Description: Cryst.

>>Derivative: Bis(1,2-ethanediamine-*N,N'*)cadmium(2+) salt

CAS Registry Number: 98255-12-0

Molecular Formula: $\text{C}_8\text{H}_{16}\text{Cd}_2\text{N}_8$

Molecular Weight: 449.09

Accurate Mass: 451.956506

Percentage Composition: C 21.40%; H 3.59%; Cd 50.06%; N 24.95%

Other Data: Acts as a chelate host for such guests as C_6H_6

>>Derivative: Bis(1,2-ethanediamine-*N,N'*)cadmium(2+) salt, bis- C_6H_6 clathrate

CAS Registry Number: 98255-13-1

Molecular Formula: $\text{C}_{20}\text{H}_{28}\text{Cd}_2\text{N}_8$

Molecular Weight: 605.317

Accurate Mass: 608.050406

Percentage Composition: C 39.69%; H 4.66%; Cd 37.14%; N 18.51%

Other Data: Clathrate compd., contains bridging ethylenediamine groups

>>Derivative: Bis(diphenyliodonium) salt

CAS Registry Number: 73012-27-8

Molecular Formula: $\text{C}_{28}\text{H}_{20}\text{CdI}_2\text{N}_4$

Molecular Weight: 778.713

Accurate Mass: 779.881099

Percentage Composition: C 43.19%; H 2.59%; Cd 14.44%; I 32.59%; N 7.19%

Physical Description: Cryst.

References: