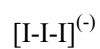




>>Entry Name: Triiodide(1-)

CAS Registry Number: 14900-04-0



Molecular Formula: $\text{I}_3^{(-)}$

Molecular Weight: 380.714

Accurate Mass: 380.713419

Percentage Composition: I 100.00%

Use/Importance: Photographic bleaching agent. Bactericide

Solubility: Dissociates in H_2O

Other Data: $\Delta H_f^\circ(\text{I}_3^{(-)}, \text{g}) -100.4 \text{ kJ mol}^{-1}$

>>Derivative: K salt

Synonym(s): Potassium triiodide

CAS Registry Number: 12298-68-9

Molecular Formula: I_3K

Molecular Weight: 419.812

Accurate Mass: 419.677126

Percentage Composition: I 90.69%; K 9.31%

Physical Description: Dark red solid

>>Derivative: Cs salt

>>Derivative: NH_4 salt

Synonym(s): Ammonium triiodide

CAS Registry Number: 12298-32-7

Molecular Formula: $\text{H}_4\text{I}_3\text{N}$

Molecular Weight: 398.752

Accurate Mass: 398.747793

Percentage Composition: H 1.01%; I 95.48%; N 3.51%

Physical Description: Dark brown cryst.

Solubility: Sol. H_2O with dec.

Other Data: Dec. in H_2O

>>Derivative: Me_4N salt

CAS Registry Number: 4337-68-2

Molecular Formula: $\text{C}_4\text{H}_{12}\text{I}_3\text{N}$

Molecular Weight: 454.859

Accurate Mass: 454.810393

Percentage Composition: C 10.56%; H 2.66%; I 83.70%; N 3.08%

Source/Synthesis: Synth. from Me_4NI and I_2 in MeOH

Physical Description: Orthorhombic purple needles

Melting Point: Mp 117-117.2°

Solubility: Sol. EtOH

>>Derivative: Et_4N salt

CAS Registry Number: 13311-47-2

Molecular Formula: $\text{C}_8\text{H}_{20}\text{I}_3\text{N}$

Molecular Weight: 510.966

Accurate Mass: 510.872993

Percentage Composition: C 18.81%; H 3.95%; I 74.51%; N 2.74%

Physical Description: Dark red cryst.