



>>Derivative: Tri-K salt

Synonym(s): Potassium citrate. Urocit K

CAS Registry Number: 866-84-2

Extra CAS Registry Numbers(s): 7778-49-6

Use/Importance: Alkalisising and buffering agent. Used in foods, beverages and oral pharmaceutical formulations. Diuretic

Physical Description: Cryst. + H₂O

Melting Point: Mp 275 dec.°

Other Data: CAS no. refers to anhydr. form

>>Derivative: Mg salt

see Magnesium citrate, [JNL88-O](#)

>>Derivative: Ca salt (2:3)

Synonym(s): Calcium citrate. Citracal

CAS Registry Number: 813-94-5

Extra CAS Registry Numbers(s): 5785-44-4

Molecular Formula: C₁₂H₁₀Ca₃O₁₄

Molecular Weight: 498.437

Accurate Mass: 497.894833

Percentage Composition: C 28.92%; H 2.02%; Ca 24.12%; O 44.94%

Source/Synthesis: Synth. from coml. citrus juice

Use/Importance: Used in manuf. of citric acid and other citrates

Physical Description: Cryst. + 4H₂O

Other Data: Loses H₂O of crystallisation at 100-120°

>>Derivative: Cu(II) salt (1:2)

Synonym(s): Copper citrate. Cuprocitrol

CAS Registry Number: 866-82-0

Molecular Formula: C₆H₄Cu₂O₇

Molecular Weight: 315.185

Accurate Mass: 313.874901

Percentage Composition: C 22.86%; H 1.28%; Cu 40.32%; O 35.53%

Source/Synthesis: Synth. from CuSO₄ + Na or K citrate

Biological Use/Importance: Astringent, antiseptic

Physical Description: Bluish-green cryst. + 2.5H₂O

Other Data: Loses H₂O of crystallisation at 100°

>>Derivative: Fe(II) complex

see Iron(II) citrate, [HRP46-A](#)

>>Derivative: Fe(III) complex

see Triqua[hydrogencitrato(3-)]iron, [JMZ43-I](#)

>>Derivative: Ga complex

see Gallium citrate, [HRP18-T](#)

>>Derivative: 1-Me ester

CAS Registry Number: 26163-61-1

Molecular Formula: C₇H₁₀O₇

Molecular Weight: 206.152

Accurate Mass: 206.042655

Percentage Composition: C 40.78%; H 4.89%; O 54.33%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 119-121°