



Hazard & Toxicity: Skin and eye irritant. LD₅₀ (mus, ipr) 330 mg/kg

>>Derivative: Di-Na mono-Ca salt

Synonym(s): Sodium calcium edetate, BAN, INN. Edetate calcium disodium, USAN. Edathamil calcium disodium. Calcium disodium versenate. Mosatil. Antallin. Ledclair. Many other names

CAS Registry Number: 62-33-9

Extra CAS Registry Numbers(s): 74011-06-6

Molecular Formula: C₁₀H₁₂CaN₂Na₂O₈

Molecular Weight: 374.271

Accurate Mass: 374.001493

Percentage Composition: C 32.09%; H 3.23%; Ca 10.71%; N 7.48%; Na 12.29%; O 34.20%

Use/Importance: Powerful chelating agent used for treatment of lead poisoning

Physical Description: Powder

Other Data: Forms a tetrahydrate

Hazard & Toxicity: Nephrotoxic and other adverse effects reported when used therapeutically. LD₅₀ (rat, orl) 10000 mg/kg

Sigma: E3137

>>Derivative: Di-K salt

Synonym(s): Edetate dipotassium, USAN. Chelaplex II

CAS Registry Number: 2001-94-7

Molecular Formula: C₁₀H₁₄K₂N₂O₈

Molecular Weight: 368.426

Accurate Mass: 368.002432

Percentage Composition: C 32.60%; H 3.83%; K 21.22%; N 7.60%; O 34.74%

Physical Description: Cryst. + 2H₂O

Melting Point: Mp 272 dec.° (dihydrate)

>>Derivative: Na salt, Fe(III) chelate

see (Ethylenediaminetetraacetato)ferrate(III)(1-), [JLQ55-N](#)

>>Derivative: Di-Co salt

Synonym(s): Dicobalt edetate, BAN, USAN. Kelocyanor

CAS Registry Number: 36499-65-7

Molecular Formula: C₁₀H₁₂Co₂N₂O₈

Molecular Weight: 406.08

Accurate Mass: 405.925764

Percentage Composition: C 29.58%; H 2.98%; Co 29.03%; N 6.90%; O 31.52%

Use/Importance: Metal poisoning antidote

>>Derivative: Tetra-Me ester

CAS Registry Number: 19376-45-5

Molecular Formula: C₁₄H₂₄N₂O₈

Molecular Weight: 348.352

Accurate Mass: 348.153268

Percentage Composition: C 48.27%; H 6.94%; N 8.04%; O 36.74%

Physical Description: Pale yellow oil

Boiling Point: Bp₅ 195-197°

>>Derivative: Tetra-Et ester

CAS Registry Number: 3626-00-4

Molecular Formula: C₁₈H₃₂N₂O₈

Molecular Weight: 404.459

Accurate Mass: 404.215868

Percentage Composition: C 53.45%; H 7.97%; N 6.93%; O 31.65%

Physical Description: Cryst.

Melting Point: Mp 34°

Boiling Point: Bp₃ 195-196°