



Synonym(s): Calcium gluconate, USAN. Calglucon. Calcicol

CAS Registry Number: 299-28-5

Extra CAS Registry Numbers(s): 66905-23-5

Use/Importance: Food additive: firming agent, sequestrant, stabiliser

Biological Use/Importance: Electrolyte replenisher

Optical Rotation: $[\alpha]_{\text{D}}^{20} +8.5$ (c, 3.0 in H₂O)

Other Data: Component of Calcet

Hazard & Toxicity: Human (infant) adverse systemic effects when used therapeutically. LD₅₀ (mus, ipr) 2200 mg/kg

Aldrich: 22764-1

Fluka: 21142

Sigma: G4625

>>Derivative: Zn(II) salt

Synonym(s): Bis(D-gluconato-*O*¹,*O*²)zinc, 9Cl. Zinc(II) gluconate

CAS Registry Number: 4468-02-4

Molecular Formula: C₁₂H₂₂O₁₄Zn

Molecular Weight: 455.687

Accurate Mass: 454.030105

Percentage Composition: C 31.63%; H 4.87%; O 49.15%; Zn 14.35%

Biological Use/Importance: Dietary zinc supplement

Physical Description: Powder

>>Derivative: Fe(II) salt

Synonym(s): Ferrous gluconate, USAN. Bis(D-gluconato-*O*¹,*O*²)iron. Iron(II) gluconate. Fergon. Ironate. Acroferon. Enteron. Ferrose. Glucoferron. Haemex-G. Neoferron. Many other names

CAS Registry Number: 299-29-6

Extra CAS Registry Numbers(s): 6047-12-7 12389-15-0 18829-42-0 22830-45-1 25126-39-0 38658-53-6 101197-68-6

Molecular Formula: C₁₂H₂₂FeO₁₄

Molecular Weight: 446.144

Accurate Mass: 446.035899

Percentage Composition: C 32.31%; H 4.97%; Fe 12.52%; O 50.21%

Use/Importance: Haematinic, corrosion inhibitor, plasticiser, dietary supplement

Physical Description: Yellow-grey powder + 2H₂O

Solubility: Sol. H₂O, insol. EtOH

Hazard & Toxicity: LD₅₀ (rat, orl) 2237 mg/kg

Fluka: 44948

>>Derivative: Fe(III)-Na salt

Synonym(s): Ferrlecit

CAS Registry Number: 34089-81-1

Biological Use/Importance: Used for the treatment of iron deficiency

Development Status: Approved by FDA (1999)

>>Derivative: Cu(II) salt

Synonym(s): Bis(D-gluconato)copper. Copper(II) gluconate

CAS Registry Number: 527-09-3

Extra CAS Registry Numbers(s): 13005-35-1

Melting Point: Mp 155-157°

Optical Rotation: $[\alpha]_{\text{D}}^{26} +15$ (c, 1 in H₂O)

>>Derivative: Polymer with D-glucitol, Fe(III) salt

Synonym(s): Glusoferron, INN

CAS Registry Number: 56959-18-3