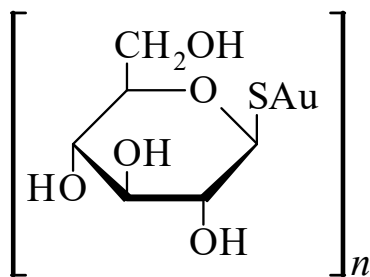




>>Entry Name: (1-Thioglucopyranosato)gold, 9Cl

Synonym(s): (1-Glucosylthio)gold. **Aurothioglucose**, INN, USAN. Aureotan. Aurumine. Oronol. Romosol. Solganal. Solganol B. Many other names



Related CAS Registry Numbers(s): 74610-70-1 82475-04-5

Molecular Formula: C₆H₁₁AuO₅S

Molecular Weight: 392.182

Accurate Mass: 391.999263

Percentage Composition: C 18.38%; H 2.83%; Au 50.22%; O 20.40%; S 8.18%

Use/Importance: Antiarthritic agent

>>Variant: D-form

CAS Registry Number: 12192-57-3

Molecular Formula: C₆H₁₁AuO₅S

Molecular Weight: 392.182

Accurate Mass: 391.999263

Percentage Composition: C 18.38%; H 2.83%; Au 50.22%; O 20.40%; S 8.18%

Use/Importance: Antiarthritic agent

Physical Description: Yellow cryst. (EtOH aq.)

Solubility: Sol. H₂O, insol. org. solvs.

Hazard & Toxicity: Range of adverse effects reported from parenteral administration of soluble gold compds. LD₅₀ (mus, ipr) 2000 mg/kg. Exp. carcinogen. Exp. reprod. and teratogenic effects

Fluka: 50833

Sigma: A0632

>>Derivative: Tetra-Ac

Synonym(s): (1-Thioglucopyranosato-2,3,4,6-tetraacetato)gold, 10Cl

CAS Registry Number: 69849-37-2

Molecular Formula: C₁₄H₁₉AuO₉S

Molecular Weight: 560.331

Accurate Mass: 560.041523

Percentage Composition: C 30.01%; H 3.42%; Au 35.15%; O 25.70%; S 5.72%

Use/Importance: Antiarthritic agent

Physical Description: Pale yellow cryst. (2-propanol/Et₂O)

Melting Point: Mp 146-148°

Optical Rotation: $[\alpha]_D^{25} -56.9$ (c, 1 in MeOH)

Other Data: Polymeric

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