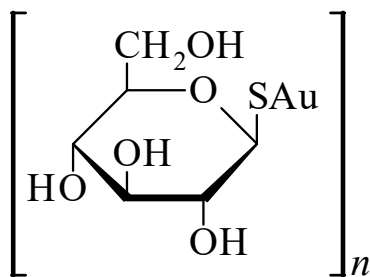




>>Entry Name: (1-Thioglucopyranosato)gold, 9Cl

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

References:

Sadler, P.J., *Struct. Bonding (Berlin)*, 1976, **29**, 171, (rev)

IARC Monog., 1977, **13**, 39, (tox, rev)

Lorber, A. *et al.*, *Gold Bull.*, 1979, **12**, 149, (rev)

U.S. Pat., 1979, *SmithKline*, 4 133 952; *CA*, **90**, 152549g, (deriv)

Brown, D.H. *et al.*, *Chem. Soc. Rev.*, 1980, **9**, 217, (rev)

Shaw, C.F. *et al.*, *J. Inorg. Biochem.*, 1981, **14**, 267, (rev, cmr)

Brown, K. *et al.*, *J.A.C.S.*, 1981, **103**, 4943, (Mössbauer)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 7

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 7th edn., Akademie-Verlag, 1994, 581, (synonyms)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ART250