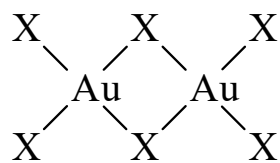




>>Entry Name: Gold(III) bromide (AuBr₃), 10Cl

Synonym(s): Gold tribromide. Auric bromide



dimer X = Br

CAS Registry Number: 10294-28-7

Molecular Formula: AuBr₃

Molecular Weight: 436.679

Accurate Mass: 433.781551

Percentage Composition: Au 45.11%; Br 54.89%

Aldrich: 39847-0

Fluka: 50770

>>Derivative: Dimer

Synonym(s): Di-μ-bromotetrabromodigold, 9Cl. Hexabromodigold

CAS Registry Number: 11092-53-8

Molecular Formula: Au₂Br₆

Molecular Weight: 873.357

Accurate Mass: 867.563102

Percentage Composition: Au 45.11%; Br 54.89%

Source/Synthesis: Synth. from gold and excess Br₂ in sealed ampoule at 140° over 4 d.

Use/Importance: Commercially available

Physical Description: Dark-red to black cryst. Hydrol. rapidly in moist air

References:

Batsanov, S.S. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1971, 1863, (*dimer*)

Lörcher, K.-P. *et al.*, *Z. Naturforsch., B*, 1975, **30**, 662, (*synth, cryst struct*)

Fokina, Z.A., *Koord. Khim.*, 1980, **6**, 1463, (*nqr*)