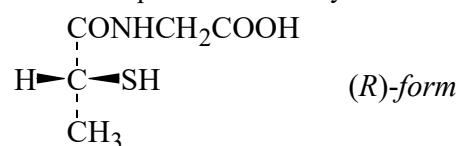




>>Entry Name: **Tiopronin**, INN, JAN

Synonym(s): *N*-(2-Mercapto-1-oxopropyl)glycine, 9CI. *N*-(2-Mercaptopropionyl)glycine, 8CI. 2-[(2-Mercaptopropanoyl)amino]acetic acid. Acadione. Captimer. Epatiol. Mercamidum. Mucolysin. Sutilan. Thiopronin. Thiosol. Tioglis. SF 572. Capen. Thiola. Many other names



CAS Registry Number: 1953-02-2

Related CAS Registry Numbers(s): 3625-85-2

Molecular Formula: C₅H₉NO₃S

Molecular Weight: 163.197

Accurate Mass: 163.030314

Percentage Composition: C 36.80%; H 5.56%; N 8.58%; O 29.41%; S 19.65%

Use/Importance: Used to treat cystinuria. Radioprotective agent and an antidote for heavy metal poisoning. Also used for treatment of rheumatoid arthritis. Props. similar to those of D-penicillamine

Development Status: Launched 1989

Calculated Log P Data: Log P -0.26 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1300 mg/kg. LD₅₀ (rat, ipr) 1400 mg/kg. Exp. reprod. effects. Adverse effects are common when used therapeutically and incl. skin and mucous membrane disorders, haematological, liver and kidney effects

Aldrich: 28096-8

Fluka: 63794

Sigma: M6635

>>Variant: (*R*)-form

Synonym(s): **Dextiopronin**, INN

CAS Registry Number: 29335-92-0

Molecular Formula: C₅H₉NO₃S

Molecular Weight: 163.197

Accurate Mass: 163.030314

Percentage Composition: C 36.80%; H 5.56%; N 8.58%; O 29.41%; S 19.65%

Biological Use/Importance: Antiinflammatory agent

>>Variant: (±)-form

CAS Registry Number: 33068-82-5

Molecular Formula: C₅H₉NO₃S

Molecular Weight: 163.197

Accurate Mass: 163.030314

Percentage Composition: C 36.80%; H 5.56%; N 8.58%; O 29.41%; S 19.65%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 95-97°

Other Data: Has been resolved but most data refers to the racemate

Other: PB: M03910

References:

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