



>>Entry Name: 2-Hydroxydithiobenzoic acid

Synonym(s): 2-Hydroxybenzenecarbodithioic acid, 9Cl. Dithiosalicylic acid, 8Cl. 2-Hydroxybenzenethionothiolic acid



CAS Registry Number: 527-89-9

Molecular Formula: C₇H₆OS₂

Molecular Weight: 170.256

Accurate Mass: 169.986005

Percentage Composition: C 49.38%; H 3.55%; O 9.40%; S 37.67%

Use/Importance: Used as a 1% satd. aq. soln. for gravimetric, extraction-photometric detn. of Ni

Physical Description: Orange needles (petrol)

Melting Point: Mp 48-50°. Mp 64°

Solubility: Sol. hot H₂O, alkalis; sl. sol. cold H₂O

>>Derivative: Hg salt

Synonym(s): Thioargyrium

Use/Importance: Antiseptic

>>Derivative: Mg salt

Synonym(s): Dithioral

CAS Registry Number: 59654-94-3

Use/Importance: Antirheumatic, antineuralgic

>>Derivative: Me ester

CAS Registry Number: 99769-16-1

Molecular Formula: C₈H₈OS₂

Molecular Weight: 184.283

Accurate Mass: 184.001655

Percentage Composition: C 52.14%; H 4.38%; O 8.68%; S 34.80%

Melting Point: Mp 10-20°

>>Derivative: 4-Bromophenacyl ester

Molecular Formula: C₁₅H₁₁BrO₂S₂

Molecular Weight: 367.287

Accurate Mass: 365.958381

Percentage Composition: C 49.05%; H 3.02%; Br 21.76%; O 8.71%; S 17.46%

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 122-123°

References:

Org. Synth., Coll. Vol., 2, 1943, 580, (*synth*)

Bost, R.W. *et al.*, *J.A.C.S.*, 1951, **73**, 25, (*synth, deriv*)

Weyers, G. *et al.*, *Fresenius' Z. Anal. Chem.*, 1968, **235**, 418, (*synth, use*)

Belg. Pat., 1973, 795 177; *CA*, **80**, 112628u, (*Mg salt*)

Dequeker, J. *et al.*, *Curr. Med. Res. Opin.*, 1980, **6**, 589, (*Mg salt, use*)