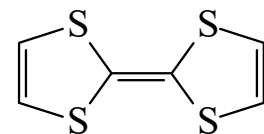




>>Entry Name: Tetrathiafulvalene

Synonym(s): 2-(1,3-Dithiol-2-ylidene)-1,3-dithiole, 9Cl. $\Delta^{2,2'}$ -2,2'-Bi-1,3-dithiole, 8Cl. Bi(1,3-dithiol-2-ylidene)



CAS Registry Number: 31366-25-3

Related CAS Registry Numbers(s): 51751-16-7 55492-86-9

Molecular Formula: C₆H₄S₄

Molecular Weight: 204.362

Accurate Mass: 203.91958

Percentage Composition: C 35.26%; H 1.97%; S 62.76%

Use/Importance: Forms conducting charge-transfer complexes. Many analogues investigated

Physical Description: Long orange needles (hexane)

Melting Point: Mp 119-119.5°

Aldrich: 18318-0

Fluka: 88150

Sigma: T1263

>>Derivative: S-Oxide

CAS Registry Number: 67761-49-3

Molecular Formula: C₆H₄OS₄

Molecular Weight: 220.361

Accurate Mass: 219.914495

Percentage Composition: C 32.70%; H 1.83%; O 7.26%; S 58.21%

Physical Description: Yellow cryst. solid (Et₂O)

Melting Point: Mp 235-240 dec.°

References:

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Carslen, L. *et al.*, *J.C.S. Perkin 2*, 1979, 862, (*synth*, *ir*, *uv*, *pmr*)

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