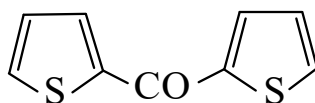




>>Entry Name: Di-2-thienyl ketone

Synonym(s): 2,2'-Dithienone. Di-2-thienylmethanone, 9CI. 2,Thienyl ketone, 8CI



CAS Registry Number: 704-38-1

Molecular Formula: C₉H₆OS₂

Molecular Weight: 194.278

Accurate Mass: 193.986005

Percentage Composition: C 55.64%; H 3.11%; O 8.24%; S 33.01%

Physical Description: Needles (EtOH)

Melting Point: Mp 90-90.5°

Boiling Point: Bp 326°

Aldrich: 44937-7

>>Derivative: Oxime

Synonym(s): Di(2-thienoyl)ketoxime

CAS Registry Number: 10558-44-8

Type of Compound Code(s): PA1650 PA3150 PM6860 PS7750

Molecular Formula: C₉H₇NOS₂

Molecular Weight: 209.292

Accurate Mass: 208.996904

Percentage Composition: C 51.65%; H 3.37%; N 6.69%; O 7.64%; S 30.64%

Use/Importance: Used as a 2% sol. in EtOH for gravimetric detn. of Au, Pd; nephelometric detn. of Pd

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 134-136°

Solubility: Sol. Et₂O, Me₂CO

>>Derivative: Phenylhydrazone

Melting Point: Mp 137°

References:

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Acheson, R.M. *et al.*, *J.C.S.*, 1956, 698-705, (*synth*)

Holland, W.J. *et al.*, *Can. J. Chem.*, 1963, **41**, 1657-1661; 1964, **42**, 1016-1018, (*synth, neph detn, Pd*)

Holland, W.J. *et al.*, *Anal. Chem.*, 1966, **38**, 919-920, (*grav detn, Pd*)

Holland, W.J. *et al.*, *Anal. Chim. Acta*, 1968, **41**, 327-330, (*detn, Au*)

Benassi, R. *et al.*, *J.C.S. Perkin 2*, 1989, 1741-1751, (*cryst struct, cmr, conformn*)

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