



>>Entry Name: 3,4-Dimethylthiophene

ENTRY UNDER REVIEW

CAS Registry Number: 632-15-5

Type of Compound Code(s): WE9999

Structure by analogy with 2,3-Dimethylthiophene, [FWX55-D](#)

Molecular Formula: C₆H₈S

Molecular Weight: 112.195

Accurate Mass: 112.03467

Percentage Composition: C 64.23%; H 7.19%; S 28.58%

Use/Importance: Odorant used in food flavouring

Boiling Point: Bp 144°

Density: d²⁰ 1.008

Refractive Index: n_D²⁰ 1.5212

>>Derivative: S,S-Dioxide

Molecular Formula: C₆H₈O₂S

Molecular Weight: 144.194

Accurate Mass: 144.0245

Percentage Composition: C 49.98%; H 5.59%; O 22.19%; S 22.24%

Physical Description: Cryst.

References:

Shepard, A.F. *et al.*, *J.A.C.S.*, 1934, **56**, 1355

Adv. Chem. Ser., 1955, **15**, 191, (*props*)

Koenig, B. *et al.*, *Chem. Ber.*, 1974, **107**, 2931, (*synth, spectra*)

Nishimura, H. *et al.*, *J.O.C.*, 1975, **40**, 1567, (*synth, ir, ms, pmr*)

Houge-Frydrych, C.S.V. *et al.*, *Chem. Comm.*, 1987, 1819, (*dioxide*)