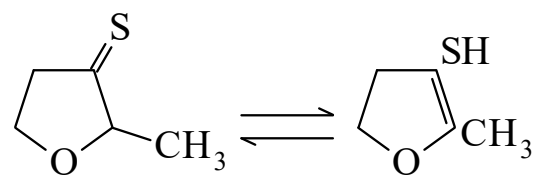




>>Entry Name: Dihydro-2-methyl-3(2H)-furanthione, 9CI

Synonym(s): 4,5-Dihydro-2-methyl-3-furanthiol, 9CI. 4,5-Dihydro-3-mercapto-2-methylfuran



CAS Registry Number: 65936-86-9

Related CAS Registry Numbers(s): 145206-67-3

Molecular Formula: C₅H₈OS

Molecular Weight: 116.184

Accurate Mass: 116.029585

Percentage Composition: C 51.69%; H 6.94%; O 13.77%; S 27.60%

Source/Synthesis: Major thermal or photolytic degradation product of Thiamine [DKN09-S](#) in H₂O. Component of roasted meat aroma

Use/Importance: Food flavouring agent

Physical Description: Liq. with roasted meat aroma

>>Variant: SH-form

CAS Registry Number: 26486-13-5

Molecular Formula: C₅H₈OS

Molecular Weight: 116.184

Accurate Mass: 116.029585

Percentage Composition: C 51.69%; H 6.94%; O 13.77%; S 27.60%

>>Derivative: S-Me

Synonym(s): 2,3-Dihydro-5-methyl-4-(methylthio)furan, 8CI

CAS Registry Number: 22929-45-9

Molecular Formula: C₆H₁₀OS

Molecular Weight: 130.21

Accurate Mass: 130.045235

Percentage Composition: C 55.35%; H 7.74%; O 12.29%; S 24.63%

Physical Description: Liq.

Boiling Point: Bp₁₃ 60°

Refractive Index: n_D²⁰ 1.5101

References:

Hoff, S. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1969, **88**, 609, (*deriv, synth, pmr, ir*)

Van den Ouweland, G.A.M. *et al.*, *J. Agric. Food Chem.*, 1975, **23**, 501, (*synth, ir, glc, ms*)

Hartman, G.J. *et al.*, *J. Agric. Food Chem.*, 1984, **32**, 1015, (*isol*)