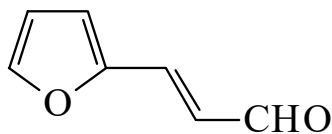




>>Entry Name: 3-(2-Furanyl)-2-propenal, 9CI

ENTRY UNDER REVIEW

Synonym(s): Furfurylideneacetaldehyde. 2-Furanacrolein. FEMA 2494



(*E*)-form

CAS Registry Number: 623-30-3

Molecular Formula: C₇H₆O₂

Molecular Weight: 122.123

Accurate Mass: 122.03678

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

Aldrich: W24940-8

>>Variant: (*E*)-form

CAS Registry Number: 39511-08-5

Molecular Formula: C₇H₆O₂

Molecular Weight: 122.123

Accurate Mass: 122.03678

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

Use/Importance: Has insecticidal props.

Physical Description: Needles with cinnamon odour

Melting Point: Mp 54°

Boiling Point: Bp₁₄ 135°

Solubility: Sol. hot H₂O

Other Data: Steam-volatile

Aldrich: F2060-2

>>Derivative: Semicarbazone

Melting Point: Mp 215-219°

>>Derivative: Phenylhydrazone

Physical Description: Cryst. (petrol)

Melting Point: Mp 132°

>>Derivative: Thiosemicarbazone

Molecular Formula: C₈H₉N₃OS

Molecular Weight: 195.245

Accurate Mass: 195.046632

Percentage Composition: C 49.21%; H 4.65%; N 21.52%; O 8.19%; S 16.42%

Use/Importance: Used as a 0.4mM soln. in EtOH for photometric detn. of Pd ($\lambda_{\max}$ 383 nm, ϵ 41000), Pt ($\lambda_{\max}$ 385 nm, ϵ 41000)

Melting Point: Mp 157-158° (150-151°)

pKa Value: pK_{a2} 11.7

>>Variant: (*Z*)-form

CAS Registry Number: 71277-14-0

Molecular Formula: C₇H₆O₂

Molecular Weight: 122.123

Accurate Mass: 122.03678

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

Boiling Point: Bp_{0.1} 58°

Other Data: 97% pure