



>>Entry Name: 2,6-Dimethylpyrazine, 9CI

ENTRY UNDER REVIEW

Synonym(s): FEMA 3273

CAS Registry Number: 108-50-9

Type of Compound Code(s): WI1000 WA4500 WE9000 WI3700 WI4600 WI1800 WE9900

Structure by analogy with 2,3-Dimethylpyrazine, [FWT97-X](#)

Molecular Formula: C₆H₈N₂

Molecular Weight: 108.143

Accurate Mass: 108.068748

Percentage Composition: C 66.64%; H 7.46%; N 25.90%

Use/Importance: Flavour additive and odorant in foods

Physical Description: Prisms with sweet fried odour

Melting Point: Mp 47-48°

Boiling Point: Bp 155.6°. Bp₃₅ 78-90°

Solubility: Sol. H₂O, EtOH, Et₂O

pKa Value: pK_{a1} 1.9; pK_{a2} -4.57 (27°, H₂SO₄ aq.)

Hazard & Toxicity: LD₅₀ (mus, ipr) 1080 mg/kg

Aldrich: W32730-1

>>Derivative: Picrate

Melting Point: Mp 175-176°

>>Derivative: 1-Oxide

CAS Registry Number: 31396-37-9

Molecular Formula: C₆H₈N₂O

Molecular Weight: 124.142

Accurate Mass: 124.063663

Percentage Composition: C 58.05%; H 6.50%; N 22.57%; O 12.89%

Physical Description: Prisms (hexane)

Melting Point: Mp 108-110° (105-106°)

>>Derivative: 4-Oxide

CAS Registry Number: 31396-38-0

Molecular Formula: C₆H₈N₂O

Molecular Weight: 124.142

Accurate Mass: 124.063663

Percentage Composition: C 58.05%; H 6.50%; N 22.57%; O 12.89%

Physical Description: Prisms (hexane)

Melting Point: Mp 57-58° (55°)

>>Derivative: 1,4-Dioxide

CAS Registry Number: 74428-43-6

Molecular Formula: C₆H₈N₂O₂

Molecular Weight: 140.141

Accurate Mass: 140.058578

Percentage Composition: C 51.42%; H 5.75%; N 19.99%; O 22.83%

Physical Description: Prisms (hexane)

Melting Point: Mp 227° (224-225°)

References: