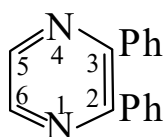




>>Entry Name: 2,3-Diphenylpyrazine, 9CI
ENTRY UNDER REVIEW



CAS Registry Number: 1588-89-2

Molecular Formula: C₁₆H₁₂N₂

Molecular Weight: 232.284

Accurate Mass: 232.100048

Percentage Composition: C 82.73%; H 5.21%; N 12.06%

Use/Importance: Food flavourant

Physical Description: Monoclinic cryst. (EtOH aq.)

Solubility: Sol. EtOH, Et₂O, C₆H₆, spar. sol. petrol, insol. H₂O

Rare Chemicals Library: S84282-6

>>Derivative: Monoxide

Molecular Formula: C₁₆H₁₂N₂O

Molecular Weight: 248.284

Accurate Mass: 248.094963

Percentage Composition: C 77.40%; H 4.87%; N 11.28%; O 6.44%

Physical Description: Needles (EtOH or petrol)

Melting Point: Mp 179.5-180° (171-172°)

>>Derivative: Dioxide

Molecular Formula: C₁₆H₁₂N₂O₂

Molecular Weight: 264.283

Accurate Mass: 264.089878

Percentage Composition: C 72.72%; H 4.58%; N 10.60%; O 12.11%

Physical Description: Platelets (EtOH)

Melting Point: Mp 262 dec.°

References:

Mason, A.T. *et al.*, *J.C.S.*, 1893, **63**, 1297

Landquist, J.K., *J.C.S.*, 1956, 1885, (*oxides*)

Shibamoto, T., *CA*, 1976, **84**, 149375t, (*use*)

Kitano, Y. *et al.*, *Acta Cryst. B*, 1983, **39**, 136, (*cryst struct*)

Sato, N. *et al.*, *J.C.S. Perkin 1*, 1994, 885, (*monoxide*)