



>>Entry Name: 3,5-Diphenylpyrazole, 9CI

Structure by analogy with 3,4-Diphenylpyrazole, [FWZ96-A](#)

Molecular Formula: C₁₅H₁₂N₂

Molecular Weight: 220.273

Accurate Mass: 220.100048

Percentage Composition: C 81.79%; H 5.49%; N 12.72%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 200°

Boiling Point: Bp₁₄₅ 347°

>>Derivative: Hydrochloride

Melting Point: Mp 232-233°

>>Variant: 1*H*-form

CAS Registry Number: 1145-01-3

Molecular Formula: C₁₅H₁₂N₂

Molecular Weight: 220.273

Accurate Mass: 220.100048

Percentage Composition: C 81.79%; H 5.49%; N 12.72%

Rare Chemicals Library: S13975-0

>>Derivative: 1-Ac

CAS Registry Number: 1154-63-8

Molecular Formula: C₁₇H₁₄N₂O

Molecular Weight: 262.31

Accurate Mass: 262.110613

Percentage Composition: C 77.84%; H 5.38%; N 10.68%; O 6.10%

Melting Point: Mp 87°

>>Derivative: 1-Me

CAS Registry Number: 19311-79-6

Molecular Formula: C₁₆H₁₄N₂

Molecular Weight: 234.3

Accurate Mass: 234.115698

Percentage Composition: C 82.02%; H 6.02%; N 11.96%

Physical Description: Prisms (Et₂O/petrol)

Melting Point: Mp 59-60°

Rare Chemicals Library: S14070-8

>>Derivative: 1-Ph

Synonym(s): 1,3,5-Triphenyl-1*H*-pyrazole

CAS Registry Number: 2183-27-9

Molecular Formula: C₂₁H₁₆N₂

Molecular Weight: 296.371

Accurate Mass: 296.131348

Percentage Composition: C 85.11%; H 5.44%; N 9.45%

Physical Description: Needles or plates (Et₂O)

Melting Point: Mp 140-140.5°

Rare Chemicals Library: S92729-5

References:

- v. Auwers, K. *et al.*, *Ber.*, 1926, **59**, 1043, (*synth, deriv*)
Anderson, D.M.W. *et al.*, *J.C.S.*, 1961, 4201, (*ir*)
Elguero, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1966, **12**, 3727, (*nmr*)
Parham, W.E. *et al.*, *J.A.C.S.*, 1967, **89**, 985
Huisgen, R. *et al.*, *Chem. Ber.*, 1968, **101**, 536, (*deriv*)
Finar, I.L., *J.C.S.(B)*, 1968, 725, (*ms*)
Simon, D. *et al.*, *J. Het. Chem.*, 1985, **22**, 1551, (*synth, uv, deriv*)
Kitajima, N. *et al.*, *J.A.C.S.*, 1992, **114**, 1277, (*synth, pmr*)
Aguilar-Parrilla, F. *et al.*, *J.A.C.S.*, 1992, **114**, 9657, (*struct*)