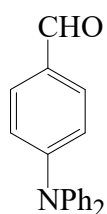




>>Entry Name: 4-(Diphenylamino)benzaldehyde, 9CI

Synonym(s): *p*-Formyltriphenylamine. Triphenylamine-4-carboxaldehyde



CAS Registry Number: 4181-05-9

Related CAS Registry Numbers(s): 25069-41-4 25069-78-7 53338-51-5 70102-79-3

Molecular Formula: C₁₉H₁₅NO

Molecular Weight: 273.334

Accurate Mass: 273.115364

Percentage Composition: C 83.49%; H 5.53%; N 5.12%; O 5.85%

Physical Description: Yellow cryst. (EtOH)

Melting Point: Mp 133-134° (129-131°)

>>Derivative: Phenyl(methyl)hydrazone

CAS Registry Number: 82532-74-9

Extra CAS Registry Numbers(s): 129658-69-1

Molecular Formula: C₂₆H₂₃N₃

Molecular Weight: 377.488

Accurate Mass: 377.189197

Percentage Composition: C 82.73%; H 6.14%; N 11.13%

Use/Importance: Used in organic layered photoconductors

Melting Point: Mp 93°

>>Derivative: Diphenylhydrazone

CAS Registry Number: 82532-76-1

Extra CAS Registry Numbers(s): 139102-45-7

Molecular Formula: C₃₁H₂₅N₃

Molecular Weight: 439.559

Accurate Mass: 439.204847

Percentage Composition: C 84.71%; H 5.73%; N 9.56%

Use/Importance: Used in organic layered photoconductors

Melting Point: Mp 172°

References:

Baker, T.N. *et al.*, *J.O.C.*, 1965, **30**, 3714-3718, (*synth*)

Ger. Pat., 1982, 3 201 202; *CA*, **97**, 101672d, (*hydrazone derivs, synth, use*)

Pacansky, J. *et al.*, *Chem. Mater.*, 1992, **4**, 401-409, (*hydrazone derivs, synth, pmr, electrophotographic props*)

Lai, G. *et al.*, *Synlett*, 1997, 1275-1276, (*synth, pmr, cmr*)