



>>Entry Name: 4-Biphenylcarboxaldehyde, 8CI

Synonym(s): Biphenyl-4-aldehyde. 4-Formylbiphenyl. *p*-Phenylbenzaldehyde

CAS Registry Number: 3218-36-8

Molecular Formula: C₁₃H₁₀O

Molecular Weight: 182.221

Accurate Mass: 182.073165

Percentage Composition: C 85.69%; H 5.53%; O 8.78%

Physical Description: Pale-yellow cryst. (petrol)

Melting Point: Mp 60°

Aldrich: B3468-0

Fluka: 14416

Sigma: P5126

>>Derivative: Oxime

CAS Registry Number: 40143-27-9

Molecular Formula: C₁₃H₁₁NO

Molecular Weight: 197.236

Accurate Mass: 197.084064

Percentage Composition: C 79.17%; H 5.62%; N 7.10%; O 8.11%

Melting Point: Mp 149-150°

Rare Chemicals Library: S43102-8

Sigma: P5251

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 2920-39-0

Physical Description: Scarlet plates (xylene)

Melting Point: Mp 239 dec.°

References:

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Hey, D.H., *J.C.S.*, 1931, 2476-2479, (*synth*)
Suzuki, H., *Bull. Chem. Soc. Jpn.*, 1960, **33**, 613-618, (*uv*)
Dahl, C.J. *et al.*, *Aust. J. Chem.*, 1965, **18**, 1307-1308, (*synth, ir*)
Org. Synth., 1998, **75**, 53-60, (*synth, ir, pmr, cmr*)
Periasamy, M. *et al.*, *Synth. Commun.*, 1999, **29**, 677-683, (*synth*)
Cahiez, G. *et al.*, *Synthesis*, 1999, 2138-2144, (*synth, ir, pmr, cmr*)