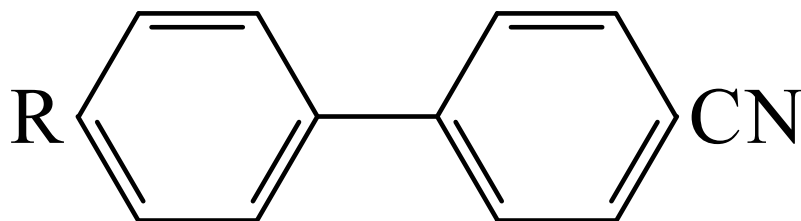




>>Entry Name: 4-Alkyl-4'-cyanobiphenyls

Synonym(s): 4'-Alkyl-[1,1'-biphenyl]-4-carbonitriles, 9CI



Related CAS Registry Numbers(s): 63748-28-7 93059-80-4 114884-45-6

Use/Importance: A family of compds. showing liquid crystal behaviour, used in liquid crystal devices

Other Data: Mp's referred to are phase transition temps.

>>Variant: 4-Cyano-4'-methylbiphenyl

Synonym(s): CB1

CAS Registry Number: 50670-50-3

Molecular Formula: $C_{14}H_{11}N$

Molecular Weight: 193.248

Accurate Mass: 193.089149

Percentage Composition: C 87.01%; H 5.74%; N 7.25%

Melting Point: Mp 109°

>>Variant: 4-Cyano-4'-ethylbiphenyl

Synonym(s): CB2

CAS Registry Number: 58743-75-2

Molecular Formula: $C_{15}H_{13}N$

Molecular Weight: 207.274

Accurate Mass: 207.104799

Percentage Composition: C 86.92%; H 6.32%; N 6.76%

Melting Point: Mp 75°

Boiling Point: Bp₃ 202-205°