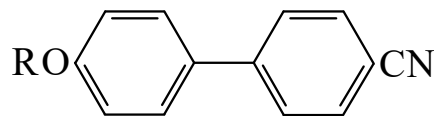




>>Entry Name: 4-Alkoxy-4'-cyanobiphenyls

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



Related CAS Registry Numbers(s): 63748-28-7

Use/Importance: A family of compds. showing liq. cryst. behaviour, used in liq. cryst. devices

>>Variant: 4-Cyano-4'-methoxybiphenyl

Synonym(s): 4'-Methoxy-[1,1'-biphenyl]-4-carbonitrile, 9CI

CAS Registry Number: 58743-77-4

Molecular Formula: C₁₄H₁₁NO

Molecular Weight: 209.247

Accurate Mass: 209.084064

Percentage Composition: C 80.36%; H 5.30%; N 6.69%; O 7.65%

Melting Point: Mp 104°

>>Variant: 4-Cyano-4'-ethoxybiphenyl

Synonym(s): 4'-Ethoxy-[1,1'-biphenyl]-4-carbonitrile, 9CI

CAS Registry Number: 58743-78-5

Molecular Formula: C₁₅H₁₃NO

Molecular Weight: 223.274

Accurate Mass: 223.099714

Percentage Composition: C 80.69%; H 5.87%; N 6.27%; O 7.17%

Melting Point: Mp 139°

>>Variant: 4-Cyano-4'-propoxybiphenyl

Synonym(s): 4'-Propyloxy-[1,1'-biphenyl]-4-carbonitrile, 9CI

CAS Registry Number: 52709-86-1

Molecular Formula: C₁₆H₁₅NO

Molecular Weight: 237.301

Accurate Mass: 237.115364

Percentage Composition: C 80.98%; H 6.37%; N 5.90%; O 6.74%

Melting Point: Mp 71.5°

Rare Chemicals Library: S4575-7

>>Variant: 4-Butoxy-4'-cyanobiphenyl

Synonym(s): 4'-Butyloxy-[1,1'-biphenyl]-4-carbonitrile, 9CI

CAS Registry Number: 52709-87-2

Molecular Formula: C₁₇H₁₇NO

Molecular Weight: 251.327

Accurate Mass: 251.131014

Percentage Composition: C 81.24%; H 6.82%; N 5.57%; O 6.37%

Melting Point: Mp 78° (crystal-smectic transition temp.)

Boiling Point: Bp_{0.3} 115-120°

Rare Chemicals Library: S6036-5

>>Variant: 4-Cyano-4'-pentyloxybiphenyl

Synonym(s): 4'-Pentyloxy-[1,1'-biphenyl]-4-carbonitrile, 9CI

CAS Registry Number: 52364-71-3

Molecular Formula: C₁₈H₁₉NO

Molecular Weight: 265.354

Accurate Mass: 265.146664

Percentage Composition: C 81.48%; H 7.22%; N 5.28%; O 6.03%

Melting Point: Mp 48° (crystal-smectic transition temp.)

Boiling Point: Bp_{0.1} 140-150°

Aldrich: 32852-9