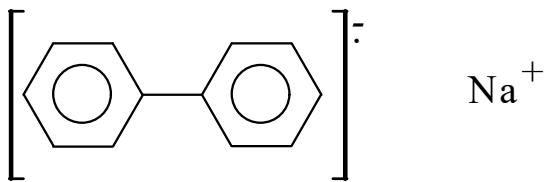




>>Entry Name: Sodium biphenyl

Synonym(s): 1,1'-Biphenyl ion(1-), sodium, 9Cl, 8Cl. Sodium biphenylide



CAS Registry Number: 5137-46-2

Related CAS Registry Numbers(s): 34509-93-8

Molecular Formula: $C_{12}H_{10}Na$

Molecular Weight: 177.201

Accurate Mass: 177.068017

Percentage Composition: C 81.34%; H 5.69%; Na 12.97%

Source/Synthesis: Synth. by reaction of sodium with biphenyl in ether solvs.

Use/Importance: Commercially available. Soln. in, e.g. (2-ethoxyethyl) ether, is analytical reagent for detn. of org. halogen

Aldrich: 27713-4

>>Derivative: Triglyme complex (1:2)

Molecular Formula: $C_{28}H_{46}NaO_8$

Molecular Weight: 533.656

Percentage Composition: C 63.02%; H 8.69%; Na 4.31%; O 23.98%

Physical Description: Deep blue black rectangular monoclinic plates (triglyme)

Melting Point: Mp 55-58°

Other Data: Paramagnetic

References:

Canter, G.W. *et al.*, *J. Phys. Chem.*, 1970, **74**, 3299, (*synth, props, deriv*)

Noordik, K. *et al.*, *Acta Cryst. B*, 1979, **35**, 621, (*cryst struct*)

Venkateswarlu, P. *et al.*, *Anal. Chem.*, 1982, **54**, 1132; 1983, **55**, 2232, (*use*)

Gribnau, M.C.M. *et al.*, *Mol. Phys.*, 1991, **73**, 819, (*epr, magnetism*)