1,1'-Bi-2-naphthol

Other names: [1,1'-Binaphthalene]-2,2'-diol
di-«beta»-Naphthol
2,2'-Dihydroxy-1,1'-dinaphthyl
«alpha»-Binaphthyl-2,2'-diol
«beta»-Binaphthol
Bis-«beta»-naphthol
1,1'-Bis-2-naphthol
2,2'-Dihydroxy-1,1'-binaphthalene
2,2'-Dihydroxy-1,1'-binaphthyl
2,2'-Dihydroxybinaphthalene
2,2'-Dihydroxydinaphthyl
2,2'-Dinaphthol
di-beta-Naphthol
1,1'-Binaphthyl-2,2'-diol
NSC 27049

Inchi: InChI=1S/C20H14O2/c21-17-11-9-13-5-1-3-7-15(13)19(17)20-16-8-4-2-6-14(16)10-12-18

InchiKey: PPTXVXKCQZKFBN-UHFFFAOYSA-N

Formula: C20H14O2

SMILES: Oc1ccc2ccccc2c1-c1c(O)ccc2ccccc12

Mol. weight [g/mol]: 286.32

CAS: 602-09-5

Physical Properties

Property code	Value	Unit	Source
gf	227.14	kJ/mol	Joback Method
hf	21.51	kJ/mol	Joback Method
hfus	40.46	kJ/mol	Joback Method
hvap	95.30	kJ/mol	Joback Method
log10ws	-6.78		Crippen Method
logp	5.071		Crippen Method
mcvol	217.960	ml/mol	McGowan Method
pc	3388.08	kPa	Joback Method
tb	919.52	K	Joback Method
tc	1197.83	K	Joback Method
tf	681.88	K	Joback Method
vc	0.716	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	644.77	J/mol×K	919.52	Joback Method
cpg	659.87	J/mol×K	965.90	Joback Method
cpg	675.51	J/mol×K	1012.29	Joback Method
cpg	692.07	J/mol×K	1058.67	Joback Method
cpg	709.94	J/mol×K	1105.06	Joback Method
cpg	729.53	J/mol×K	1151.44	Joback Method
cpg	751.22	J/mol×K	1197.83	Joback Method
dvisc	0.0000088	Pa×s	681.88	Joback Method
dvisc	0.0000052	Pa×s	721.49	Joback Method
dvisc	0.0000032	Pa×s	761.09	Joback Method
dvisc	0.0000021	Pa×s	800.70	Joback Method
dvisc	0.0000014	Pa×s	840.31	Joback Method
dvisc	0.0000010	Pa×s	879.91	Joback Method
dvisc	0.0000007	Pa×s	919.52	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C602095&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume