

5,8-Dihydro-5,8-ethano-2-phenyl-1,4-naphtho-hyd

Inchi:	InChI=1S/C18H16O2/c19-15-10-14(11-4-2-1-3-5-11)18(20)17-13-8-6-12(7-9-13)16(15)1
InchiKey:	IQJFMFDSYYMVHZ-UHFFFAOYSA-N
Formula:	C18H16O2
SMILES:	Oc1cc(-c2ccccc2)c(O)c2c1C1C=CC2CC1
Mol. weight [g/mol]:	264.32
CAS:	17694-11-0

Physical Properties

Property code	Value	Unit	Source
gf	148.46	kJ/mol	Joback Method
hf	-115.97	kJ/mol	Joback Method
hfus	38.74	kJ/mol	Joback Method
hvap	87.68	kJ/mol	Joback Method
log10ws	-5.18		Crippen Method
logp	4.296		Crippen Method
mcvol	202.680	ml/mol	McGowan Method
pc	3380.21	kPa	Joback Method
tb	848.44	K	Joback Method
tc	1116.62	K	Joback Method
tf	630.58	K	Joback Method
vc	0.659	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.93	J/molxK	848.44	Joback Method
cpg	705.25	J/molxK	1071.92	Joback Method
cpg	687.90	J/molxK	1027.23	Joback Method
cpg	671.56	J/molxK	982.53	Joback Method
cpg	655.85	J/molxK	937.83	Joback Method
cpg	640.43	J/molxK	893.14	Joback Method
cpg	723.95	J/molxK	1116.62	Joback Method
dvisc	0.0000035	Paxs	848.44	Joback Method
dvisc	0.0000047	Paxs	812.13	Joback Method

dvisc	0.0000066	Paxs	775.82	Joback Method
dvisc	0.0000096	Paxs	739.51	Joback Method
dvisc	0.0000144	Paxs	703.20	Joback Method
dvisc	0.0000227	Paxs	666.89	Joback Method
dvisc	0.0000377	Paxs	630.58	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C17694110&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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