1-Hydroxy-2-(n-benzyl) naphthamide

Inchi: InChI=1S/C18H15NO2/c20-17-15-9-5-4-8-14(15)10-11-16(17)18(21)19-12-13-6-2-1-3-7-
InchiKey: HGCOHDNNHKHJAJ-UHFFFAOYSA-N
Formula: C18H15NO2
SMILES: O=C(NCc1ccccc1)c1ccc2ccccc2c1O
Mol. weight [g/mol]: 277.32
CAS: 5697-04-1

Physical Properties

Property code	Value	Unit	Source
gf	228.37	kJ/mol	Joback Method
hf	1.39	kJ/mol	Joback Method
hfus	39.57	kJ/mol	Joback Method
hvap	88.71	kJ/mol	Joback Method
log10ws	-5.28		Crippen Method
logp	3.475		Crippen Method
mcvol	214.920	ml/mol	McGowan Method
pc	2989.32	kPa	Joback Method
tb	873.22	K	Joback Method
tc	1130.33	K	Joback Method
tf	604.99	K	Joback Method
vc	0.756	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	628.08	J/mol×K	873.22	Joback Method
cpg	641.18	J/mol×K	916.07	Joback Method
cpg	653.72	J/mol×K	958.92	Joback Method
cpg	665.92	J/mol×K	1001.77	Joback Method
cpg	677.98	J/mol×K	1044.62	Joback Method
cpg	690.12	J/mol×K	1087.48	Joback Method
cpg	702.54	J/mol×K	1130.33	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5697041&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
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