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

Inchi: InChI=1S/C16H19NO2/c1-2-3-6-11-17-16(19)14-10-9-12-7-4-5-8-13(12)15(14)18/h4-5,7-
InchiKey: SXMOTVHITGZJHI-UHFFFAOYSA-N
Formula: C16H19NO2
SMILES: CCCCCNC(=O)c1ccc2ccccc2c1O
Mol. weight [g/mol]: 257.33
CAS: 101287-05-2

Physical Properties

Property code	Value	Unit	Source
gf	99.12	kJ/mol	Joback Method
hf	-193.86	kJ/mol	Joback Method
hfus	40.35	kJ/mol	Joback Method
hvap	81.98	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	3.465		Crippen Method
mcvol	210.500	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
tb	800.78	K	Joback Method
tc	1028.20	K	Joback Method
tf	556.03	K	Joback Method
vc	0.752	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	615.31	J/mol×K	800.78	Joback Method
cpg	628.92	J/mol×K	838.68	Joback Method
cpg	641.85	J/mol×K	876.59	Joback Method
cpg	654.22	J/mol×K	914.49	Joback Method
cpg	666.17	J/mol×K	952.39	Joback Method
cpg	677.81	J/mol×K	990.29	Joback Method
cpg	689.29	J/mol×K	1028.20	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C101287052&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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