

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

Inchi:	InChI=1S/C14H15NO2/c1-9(2)15-14(17)12-8-7-10-5-3-4-6-11(10)13(12)16/h3-9,16H,1-2
InchiKey:	DCABTKWLKSBTDJ-UHFFFAOYSA-N
Formula:	C14H15NO2
SMILES:	CC(C)NC(=O)c1ccc2ccccc2c1O
Mol. weight [g/mol]:	229.27
CAS:	100710-80-3

Physical Properties

Property code	Value	Unit	Source
gf	79.84	kJ/mol	Joback Method
hf	-157.86	kJ/mol	Joback Method
hfus	31.64	kJ/mol	Joback Method
hvap	77.14	kJ/mol	Joback Method
log10ws	-4.12		Crippen Method
logp	2.684		Crippen Method
mcvol	182.320	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
tb	754.58	K	Joback Method
tc	993.91	K	Joback Method
tf	518.49	K	Joback Method
vc	0.634	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	508.52	J/molxK	754.58	Joback Method
cpg	521.32	J/molxK	794.47	Joback Method
cpg	533.35	J/molxK	834.36	Joback Method
cpg	544.75	J/molxK	874.24	Joback Method
cpg	555.65	J/molxK	914.13	Joback Method
cpg	566.21	J/molxK	954.02	Joback Method
cpg	576.55	J/molxK	993.91	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C100710803&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
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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