Naphthalene, 1-(2-hydroxypropyl)

Other names: 1-(1-Naphthyl)-2-propanol
Inchi: InChI=1S/C13H14O/c1-10(14)9-12-7-4-6-11-5-2-3-8-13(11)12/h2-8,10,14H,9H2,1H3
InchiKey: AWRNNDMJROEECC-UHFFFAOYSA-N
Formula: C13H14O
SMILES: CC(O)Cc1cccc2ccccc12
Mol. weight [g/mol]: 186.25
CAS: 27653-13-0

Physical Properties

Property code	Value	Unit	Source
gf	128.75	kJ/mol	Joback Method
hf	-53.03	kJ/mol	Joback Method
hfus	20.66	kJ/mol	Joback Method
hvap	65.40	kJ/mol	Joback Method
log10ws	-3.87		Crippen Method
logp	2.763		Crippen Method
mcvol	156.680	ml/mol	McGowan Method
pc	3069.34	kPa	Joback Method
rinpol	1712.00		NIST Webbook
rinpol	1712.00		NIST Webbook
tb	639.22	K	Joback Method
tc	852.43	K	Joback Method
tf	353.73	K	Joback Method
vc	0.591	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	397.24	J/mol×K	639.22	Joback Method
cpg	454.18	J/mol×K	816.89	Joback Method
cpg	444.27	J/mol×K	781.36	Joback Method
cpg	433.69	J/mol×K	745.82	Joback Method
cpg	422.36	J/mol×K	710.29	Joback Method
cpg	410.24	J/mol×K	674.75	Joback Method

cpg	463.47	J/mol×K	852.43	Joback Method
dvisc	0.0000929	Pa×s	639.22	Joback Method
dvisc	0.0001350	Pa×s	591.64	Joback Method
dvisc	0.0002097	Pa×s	544.06	Joback Method
dvisc	0.0003542	Pa×s	496.48	Joback Method
dvisc	0.0006688	Pa×s	448.89	Joback Method
dvisc	0.0014680	Pa×s	401.31	Joback Method
dvisc	0.0039811	Pa×s	353.73	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C27653130&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
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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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