

Naphthalene, 1,2,3,4,4a,5,6,7-octahydro-8-methoxy-

Inchi:	InChI=1S/C11H18O/c1-12-11-8-4-6-9-5-2-3-7-10(9)11/h9H,2-8H2,1H3
InchiKey:	JWGZDJQGJGEAAT-UHFFFAOYSA-N
Formula:	C11H18O
SMILES:	COC1=C2CCCCC2CCC1
Mol. weight [g/mol]:	166.26
CAS:	101555-42-4

Physical Properties

Property code	Value	Unit	Source
gf	28.25	kJ/mol	Joback Method
hf	-226.45	kJ/mol	Joback Method
hfus	12.68	kJ/mol	Joback Method
hvap	44.93	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.261		Crippen Method
mcvol	145.700	ml/mol	McGowan Method
pc	2793.56	kPa	Joback Method
tb	517.85	K	Joback Method
tc	739.09	K	Joback Method
tf	287.80	K	Joback Method
vc	0.538	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.19	J/molxK	517.85	Joback Method
cpg	367.00	J/molxK	554.72	Joback Method
cpg	385.67	J/molxK	591.60	Joback Method
cpg	403.26	J/molxK	628.47	Joback Method
cpg	419.78	J/molxK	665.34	Joback Method
cpg	435.29	J/molxK	702.21	Joback Method
cpg	449.81	J/molxK	739.09	Joback Method
dvisc	0.0023575	Paxs	287.80	Joback Method
dvisc	0.0013640	Paxs	326.14	Joback Method

dvisc	0.0008855	Paxs	364.48	Joback Method
dvisc	0.0006241	Paxs	402.82	Joback Method
dvisc	0.0004675	Paxs	441.17	Joback Method
dvisc	0.0003667	Paxs	479.51	Joback Method
dvisc	0.0002982	Paxs	517.85	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=C101555424&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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