NAPHTHALENE, 1,2,3,4-TETRAHYDRO-5,6,7,8-TETRAMETHYL-

Other names: 5,6,7,8-Tetramethyl-1,2,3,4-tetrahydronaphthalene
Inchi: InChI=1S/C14H20/c1-9-10(2)12(4)14-8-6-5-7-13(14)11(9)3/h5-8H2,1-4H3
InchiKey: OPDGWSYNXPRREB-UHFFFAOYSA-N
Formula: C14H20
SMILES: Cc1c(C)c(C)c2c(c1C)CCCC2
Mol. weight [g/mol]: 188.31

Physical Properties

Property code	Value	Unit	Source
hf	-58.21	kJ/mol	Cheméo Relay (1.0)
hfus	19.08	kJ/mol	Joback Method
hvap	71.92	kJ/mol	Cheméo Relay (1.0)
ie	7.94	eV	Cheméo Relay (1.0)
logp	3.799		Crippen Method
mcvol	173.500	ml/mol	McGowan Method
rinpol	1602.00		NIST Webbook
tb	560.40	K	Cheméo Relay (1.0)
tf	423.21	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.68	J/mol×K	586.98	Joback Method
cpg	447.78	J/mol×K	623.79	Joback Method
cpg	464.87	J/mol×K	660.59	Joback Method
cpg	480.99	J/mol×K	697.40	Joback Method
cpg	496.19	J/mol×K	734.20	Joback Method
cpg	510.51	J/mol×K	771.01	Joback Method
cpg	524.00	J/mol×K	807.82	Joback Method
dvisc	0.0011632	Pa×s	355.22	Joback Method
dvisc	0.0008011	Pa×s	393.85	Joback Method
dvisc	0.0005897	Pa×s	432.47	Joback Method
dvisc	0.0004564	Pa×s	471.10	Joback Method
dvisc	0.0003673	Pa×s	509.73	Joback Method

dvisc	0.0003047	Pa×s	548.35	Joback Method
dvisc	0.0002591	Pa×s	586.98	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19063117&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point