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

Inchi: InChI=1S/C14H20/c1-10-7-11(2)13-5-6-14(3,4)9-12(13)8-10/h7-8H,5-6,9H2,1-4H3

InchiKey: LPZOMHQRIWIZSX-UHFFFAOYSA-N

Formula: C14H20

SMILES: Cc1cc(C)c2c(c1)CC(C)(C)CC2

Mol. weight [g/mol]: 188.31

Physical Properties

Property code	Value	Unit	Source
hf	-49.84	kJ/mol	Cheméo Relay (1.0)
hfus	14.63	kJ/mol	Joback Method
hvap	62.29	kJ/mol	Cheméo Relay (1.0)
logp	3.818		Crippen Method
mcvol	173.500	ml/mol	McGowan Method
rinpol	1445.00		NIST Webbook
rinpol	1445.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.35	J/mol×K	572.59	Joback Method
cpg	448.30	J/mol×K	610.54	Joback Method
cpg	466.08	J/mol×K	648.49	Joback Method
cpg	482.85	J/mol×K	686.43	Joback Method
cpg	498.75	J/mol×K	724.38	Joback Method
cpg	513.95	J/mol×K	762.33	Joback Method
cpg	528.59	J/mol×K	800.28	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C23342258&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

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices