

Naphthalene, 1,2,3,4-tetrahydro-1-nonyl-

Inchi:	InChI=1S/C19H30/c1-2-3-4-5-6-7-8-12-17-14-11-15-18-13-9-10-16-19(17)18/h9-10,13,16
InchiKey:	QMOFHSNOIHJCKA-UHFFFAOYSA-N
Formula:	C19H30
SMILES:	CCCCCCCCC1CCCc2ccccc21
Mol. weight [g/mol]:	258.44
CAS:	33425-49-9

Physical Properties

Property code	Value	Unit	Source
gf	260.53	kJ/mol	Joback Method
hf	-143.79	kJ/mol	Joback Method
hfus	34.65	kJ/mol	Joback Method
hvap	60.91	kJ/mol	Joback Method
log10ws	-6.70		Crippen Method
logp	6.247		Crippen Method
mvol	243.950	ml/mol	McGowan Method
pc	1512.85	kPa	Joback Method
tb	676.79	K	Joback Method
tc	877.60	K	Joback Method
tf	357.25	K	Joback Method
vc	0.941	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	699.40	J/molxK	676.79	Joback Method
cpg	720.51	J/molxK	710.26	Joback Method
cpg	740.41	J/molxK	743.73	Joback Method
cpg	759.17	J/molxK	777.20	Joback Method
cpg	776.84	J/molxK	810.66	Joback Method
cpg	793.50	J/molxK	844.13	Joback Method
cpg	809.20	J/molxK	877.60	Joback Method
dvisc	0.0022314	Paxs	357.25	Joback Method
dvisc	0.0011695	Paxs	410.51	Joback Method

dvisc	0.0007109	Paxs	463.76	Joback Method
dvisc	0.0004789	Paxs	517.02	Joback Method
dvisc	0.0003473	Paxs	570.28	Joback Method
dvisc	0.0002660	Paxs	623.53	Joback Method
dvisc	0.0002125	Paxs	676.79	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C33425499&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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