

2-nonylnaphthalene

Inchi:	InChI=1S/C19H36/c1-2-3-4-5-6-7-8-11-17-14-15-18-12-9-10-13-19(18)16-17/h17-19H,2-
InchiKey:	YIXLIPKWKPHBIX-OTWHNJEPSA-N
Formula:	C19H26
SMILES:	CCCCCCCCC1CCC2CCCCC2C1
Mol. weight [g/mol]:	254.41
CAS:	61886-67-7

Physical Properties

Property code	Value	Unit	Source
gf	174.49	kJ/mol	Joback Method
hf	-334.87	kJ/mol	Joback Method
hfus	33.91	kJ/mol	Joback Method
hvap	58.09	kJ/mol	Joback Method
log10ws	-6.84		Crippen Method
logp	6.734		Crippen Method
mcvol	256.850	ml/mol	McGowan Method
pc	1356.63	kPa	Joback Method
tb	623.00 ± 5.00	K	NIST Webbook
tc	854.43	K	Joback Method
tf	276.80 ± 1.50	K	NIST Webbook
tf	276.70 ± 3.00	K	NIST Webbook
vc	0.981	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	770.43	J/mol×K	660.01	Joback Method
cpg	795.54	J/mol×K	692.41	Joback Method
cpg	819.27	J/mol×K	724.82	Joback Method
cpg	841.68	J/mol×K	757.22	Joback Method
cpg	862.81	J/mol×K	789.63	Joback Method
cpg	882.72	J/mol×K	822.03	Joback Method
cpg	901.47	J/mol×K	854.43	Joback Method
dvisc	0.0038419	Paxs	321.45	Joback Method

dvisc	0.0017656	Paxs	377.88	Joback Method
dvisc	0.0009931	Paxs	434.30	Joback Method
dvisc	0.0006376	Paxs	490.73	Joback Method
dvisc	0.0004486	Paxs	547.16	Joback Method
dvisc	0.0003370	Paxs	603.58	Joback Method
dvisc	0.0002659	Paxs	660.01	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C61886677&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
KDB:	https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=813

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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