

Naphthalene, 1,2-diethyl-

Inchi:	InChI=1S/C14H16/c1-3-11-9-10-12-7-5-6-8-14(12)13(11)4-2/h5-10H,3-4H2,1-2H3
InchiKey:	UUCHLIAGHZJJER-UHFFFAOYSA-N
Formula:	C14H16
SMILES:	CCc1ccc2ccccc2c1CC
Mol. weight [g/mol]:	184.28

Physical Properties

Property code	Value	Unit	Source
gf	266.80	kJ/mol	Joback Method
hf	72.37	kJ/mol	Joback Method
hfus	22.30	kJ/mol	Joback Method
hvap	52.00	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	3.965		Crippen Method
mcvol	164.900	ml/mol	McGowan Method
pc	2460.47	kPa	Joback Method
rinsol	1544.00		NIST Webbook
tb	575.34	K	Joback Method
tc	798.37	K	Joback Method
tf	331.70	K	Joback Method
vc	0.633	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	389.82	J/molxK	575.34	Joback Method
cpg	406.19	J/molxK	612.51	Joback Method
cpg	421.50	J/molxK	649.68	Joback Method
cpg	435.82	J/molxK	686.85	Joback Method
cpg	449.22	J/molxK	724.03	Joback Method
cpg	461.76	J/molxK	761.20	Joback Method
cpg	473.50	J/molxK	798.37	Joback Method
dvisc	0.0013867	Paxs	331.70	Joback Method
dvisc	0.0009157	Paxs	372.31	Joback Method

dvisc	0.0006561	Paxs	412.91	Joback Method
dvisc	0.0004990	Paxs	453.52	Joback Method
dvisc	0.0003970	Paxs	494.13	Joback Method
dvisc	0.0003270	Paxs	534.73	Joback Method
dvisc	0.0002769	Paxs	575.34	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R18535&Units=SI

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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