

6-hexyl-1,2,3,4-tetrahydronaphthalene

Inchi:	InChI=1S/C16H24/c1-2-3-4-5-8-14-11-12-15-9-6-7-10-16(15)13-14/h11-13H,2-10H2,1H3
InchiKey:	XEERAPSBRY SRL-UHFFFAOYSA-N
Formula:	C16H24
SMILES:	CCCCCc1ccc2c(c1)CCCC2
Mol. weight [g/mol]:	216.36
CAS:	56598-72-2

Physical Properties

Property code	Value	Unit	Source
gf	233.35	kJ/mol	Joback Method
hf	-73.00	kJ/mol	Joback Method
hfus	25.42	kJ/mol	Joback Method
hvap	55.20	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	4.688		Crippen Method
mvol	201.680	ml/mol	McGowan Method
pc	1949.23	kPa	Joback Method
tb	617.80	K	Joback Method
tc	828.33	K	Joback Method
tf	340.20	K	Joback Method
vc	0.773	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	532.75	J/molxK	617.80	Joback Method
cpg	552.52	J/molxK	652.89	Joback Method
cpg	571.11	J/molxK	687.98	Joback Method
cpg	588.58	J/molxK	723.07	Joback Method
cpg	605.01	J/molxK	758.15	Joback Method
cpg	620.45	J/molxK	793.24	Joback Method
cpg	634.98	J/molxK	828.33	Joback Method
dvisc	0.0021893	Paxs	340.20	Joback Method
dvisc	0.0012065	Paxs	386.47	Joback Method

dvisc	0.0007553	Paxs	432.73	Joback Method
dvisc	0.0005176	Paxs	479.00	Joback Method
dvisc	0.0003791	Paxs	525.27	Joback Method
dvisc	0.0002920	Paxs	571.53	Joback Method
dvisc	0.0002339	Paxs	617.80	Joback Method

Sources

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=C56598722&Units=SI
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
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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