1,2,3,4,6,8«alpha»-Hexahydro-1-isopropyl-4,7-dim

Inchi: InChI=1S/C15H26/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h7,10-13,15H,5-6,8-9H2
InchiKey: PWRFSOOIPDQWCI-UHFFFAOYSA-N
Formula: C15H26
SMILES: CC1CC=C2C(C)CCC(C(C)C)C2C1
Mol. weight [g/mol]: 206.37

Physical Properties

Property code	Value	Unit	Source
gf	150.99	kJ/mol	Joback Method
hf	-231.62	kJ/mol	Joback Method
hfus	21.93	kJ/mol	Joback Method
hvap	49.45	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	4.661		Crippen Method
mcvol	196.190	ml/mol	McGowan Method
pc	1834.11	kPa	Joback Method
rinpol	1551.00		NIST Webbook
tb	567.52	K	Joback Method
tc	779.81	K	Joback Method
tf	270.41	K	Joback Method
vc	0.736	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	522.65	J/mol×K	567.52	Joback Method
cpg	632.50	J/mol×K	744.43	Joback Method
cpg	613.13	J/mol×K	709.05	Joback Method
cpg	592.50	J/mol×K	673.67	Joback Method
cpg	570.58	J/mol×K	638.28	Joback Method
cpg	547.31	J/mol×K	602.90	Joback Method
cpg	650.67	J/mol×K	779.81	Joback Method
dvisc	0.0003771	Pa×s	567.52	Joback Method
dvisc	0.0004419	Pa×s	518.00	Joback Method

dvisc	0.0005353	Pa×s	468.48	Joback Method
dvisc	0.0006786	Pa×s	418.96	Joback Method
dvisc	0.0009166	Pa×s	369.45	Joback Method
dvisc	0.0013591	Pa×s	319.93	Joback Method
dvisc	0.0023277	Pa×s	270.41	Joback Method

Sources

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=R420683&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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