5,6-Dihydro-1,4-dimethylazulene

Inchi: InChI=1S/C12H14/c1-9-5-3-4-6-11-10(2)7-8-12(9)11/h4,6-8H,3,5H2,1-2H3
InchiKey: IQELVECEDPOJSE-UHFFFAOYSA-N
Formula: C12H14
SMILES: CC1=C2C=CCCC(C)=C2C=C1
Mol. weight [g/mol]: 158.24

Physical Properties

Property code	Value	Unit	Source
gf	220.00	kJ/mol	Joback Method
hf	55.87	kJ/mol	Joback Method
hfus	15.90	kJ/mol	Joback Method
hvap	47.25	kJ/mol	Joback Method
log10ws	-4.05		Crippen Method
logp	3.539		Crippen Method
mcvol	141.020	ml/mol	McGowan Method
pc	2890.51	kPa	Joback Method
rinpol	1425.00		NIST Webbook
rinpol	1425.00		NIST Webbook
tb	530.42	K	Joback Method
tc	759.63	K	Joback Method
tf	308.40	K	Joback Method
vc	0.535	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	314.36	J/mol×K	530.42	Joback Method
cpg	385.17	J/mol×K	721.43	Joback Method
cpg	372.87	J/mol×K	683.22	Joback Method
cpg	359.70	J/mol×K	645.02	Joback Method
cpg	345.60	J/mol×K	606.82	Joback Method
cpg	330.51	J/mol×K	568.62	Joback Method
cpg	396.66	J/mol×K	759.63	Joback Method
dvisc	0.0002954	Pa×s	530.42	Joback Method

dvisc	0.0003485	Pa×s	493.42	Joback Method
dvisc	0.0004224	Pa×s	456.41	Joback Method
dvisc	0.0005295	Pa×s	419.41	Joback Method
dvisc	0.0006935	Pa×s	382.41	Joback Method
dvisc	0.0009624	Pa×s	345.40	Joback Method
dvisc	0.0014447	Pa×s	308.40	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=R426196&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume