

4,10-Dihydro-1,4-dimethylazulene

Inchi:	InChI=1S/C12H14/c1-9-5-3-4-6-11-10(2)7-8-12(9)11/h3-9,12H,1-2H3
InchiKey:	AXPHAVGYWGSHTC-UHFFFAOYSA-N
Formula:	C12H14
SMILES:	CC1=C2C=CC=CC(C)C2C=C1
Mol. weight [g/mol]:	158.24

Physical Properties

Property code	Value	Unit	Source
gf	223.84	kJ/mol	Joback Method
hf	38.13	kJ/mol	Joback Method
hfus	18.82	kJ/mol	Joback Method
hvap	45.31	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	3.251		Crippen Method
mcvol	141.020	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
ripol	1815.00		NIST Webbook
ripol	1815.00		NIST Webbook
tb	511.12	K	Joback Method
tc	737.73	K	Joback Method
tf	274.88	K	Joback Method
vc	0.533	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.83	J/molxK	511.12	Joback Method
cpg	333.70	J/molxK	548.89	Joback Method
cpg	350.41	J/molxK	586.66	Joback Method
cpg	366.02	J/molxK	624.42	Joback Method
cpg	380.59	J/molxK	662.19	Joback Method
cpg	394.17	J/molxK	699.96	Joback Method
cpg	406.82	J/molxK	737.73	Joback Method
dvisc	0.0013114	Paxs	274.88	Joback Method

dvisc	0.0009205	Paxs	314.25	Joback Method
dvisc	0.0006991	Paxs	353.63	Joback Method
dvisc	0.0005610	Paxs	393.00	Joback Method
dvisc	0.0004686	Paxs	432.37	Joback Method
dvisc	0.0004034	Paxs	471.75	Joback Method
dvisc	0.0003553	Paxs	511.12	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R418234&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

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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