

Indene, 5-methyl-3a,4,7,7a-tetrahydro

Inchi:	InChI=1S/C10H14/c1-8-5-6-9-3-2-4-10(9)7-8/h2,4-5,9-10H,3,6-7H2,1H3
InchiKey:	QUUPYIWVLBLJWNG-UHFFFAOYSA-N
Formula:	C10H14
SMILES:	CC1=CCC2CC=CC2C1
Mol. weight [g/mol]:	134.22

Physical Properties

Property code	Value	Unit	Source
gf	168.81	kJ/mol	Joback Method
hf	-18.52	kJ/mol	Joback Method
hfus	13.68	kJ/mol	Joback Method
hvap	39.44	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.919		Crippen Method
mcvol	121.440	ml/mol	McGowan Method
pc	3135.00	kPa	Joback Method
rinqol	1113.00		NIST Webbook
tb	457.79	K	Joback Method
tc	677.10	K	Joback Method
tf	241.82	K	Joback Method
vc	0.458	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.37	J/molxK	457.79	Joback Method
cpg	337.33	J/molxK	640.55	Joback Method
cpg	323.41	J/molxK	604.00	Joback Method
cpg	308.52	J/molxK	567.44	Joback Method
cpg	292.58	J/molxK	530.89	Joback Method
cpg	275.55	J/molxK	494.34	Joback Method
cpg	350.33	J/molxK	677.10	Joback Method
dvisc	0.0004272	Paxs	457.79	Joback Method
dvisc	0.0004794	Paxs	421.79	Joback Method

dvisc	0.0005495	Paxs	385.80	Joback Method
dvisc	0.0006480	Paxs	349.80	Joback Method
dvisc	0.0007934	Paxs	313.81	Joback Method
dvisc	0.0010239	Paxs	277.81	Joback Method
dvisc	0.0014256	Paxs	241.82	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=R128104&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

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