4,7-Methano-1H-indene,octahydro-2-methyl-,(2&#9

Other names: 4,7-Methano-1H-indene,octahydro-2-methyl,(2α,3aβ,4α,7αalpha.,
4,7-Methano-1H-indene,octahydro-2-methyl-,(2«alpha»,3a«beta»,4«alpha»,7«alpha»,7a«
Inchi: InChI=1S/C11H18/c1-7-4-10-8-2-3-9(6-8)11(10)5-7/h7-11H,2-6H2,1H3
InchiKey: YRZNTCJZTVDNNI-UHFFFAOYSA-N
Formula: C11H18
SMILES: CC1CC2C3CCC(C3)C2C1
Mol. weight [g/mol]: 150.26
CAS: 50745-90-9

Physical Properties

Property code	Value	Unit	Source
gf	196.47	kJ/mol	Joback Method
hf	-98.81	kJ/mol	Joback Method
hfus	18.69	kJ/mol	Joback Method
hvap	39.37	kJ/mol	Joback Method
ie	9.35 ± 0.05	eV	NIST Webbook
log10ws	-2.90		Crippen Method
logp	3.079		Crippen Method
mcvol	133.270	ml/mol	McGowan Method
pc	2698.60	kPa	Joback Method
tb	466.23	K	Joback Method
tc	676.61	K	Joback Method
tf	255.55	K	Joback Method
vc	0.512	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	319.04	J/mol×K	466.23	Joback Method
cpg	341.08	J/mol×K	501.29	Joback Method
cpg	361.70	J/mol×K	536.36	Joback Method
cpg	380.97	J/mol×K	571.42	Joback Method
cpg	398.99	J/mol×K	606.48	Joback Method
cpg	415.85	J/mol×K	641.54	Joback Method

cpg	431.62	J/mol×K	676.61	Joback Method
dvisc	0.0005341	Pa×s	255.55	Joback Method
dvisc	0.0006712	Pa×s	290.66	Joback Method
dvisc	0.0008029	Pa×s	325.78	Joback Method
dvisc	0.0009276	Pa×s	360.89	Joback Method
dvisc	0.0010446	Pa×s	396.00	Joback Method
dvisc	0.0011538	Pa×s	431.12	Joback Method
dvisc	0.0012554	Pa×s	466.23	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=C50745909&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
ie:	Ionization energy
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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