4,7-Methano-1H-indene,5-ethyloctahydro-,(3a&#94

Other names: 4,7-Methano-1H-indene,5-ethyloctahydro-,(3a«alpha»,4«beta»,5«alpha»,7«beta»,7a«alp
Inchi: InChI=1S/C12H20/c1-2-8-6-9-7-12(8)11-5-3-4-10(9)11/h8-12H,2-7H2,1H3
InchiKey: USWHQIMHJXIDKG-UHFFFAOYSA-N
Formula: C12H20
SMILES: CCC1CC2CC1C1CCCC21
Mol. weight [g/mol]: 164.29
CAS: 32787-97-6

Physical Properties

Property code	Value	Unit	Source
gf	204.89	kJ/mol	Joback Method
hf	-119.45	kJ/mol	Joback Method
hfus	21.28	kJ/mol	Joback Method
hvap	41.60	kJ/mol	Joback Method
ie	9.35 ± 0.05	eV	NIST Webbook
log10ws	-3.32		Crippen Method
logp	3.469		Crippen Method
mcvol	147.360	ml/mol	McGowan Method
pc	2448.32	kPa	Joback Method
tb	489.11	K	Joback Method
tc	696.52	K	Joback Method
tf	266.82	K	Joback Method
vc	0.569	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	367.52	J/mol×K	489.11	Joback Method
cpg	466.74	J/mol×K	661.95	Joback Method
cpg	449.39	J/mol×K	627.38	Joback Method
cpg	430.88	J/mol×K	592.81	Joback Method
cpg	411.12	J/mol×K	558.25	Joback Method
cpg	390.03	J/mol×K	523.68	Joback Method
cpg	483.01	J/mol×K	696.52	Joback Method

dvisc	0.0014315	Pa×s	489.11	Joback Method
dvisc	0.0013411	Pa×s	452.06	Joback Method
dvisc	0.0012419	Pa×s	415.01	Joback Method
dvisc	0.0011329	Pa×s	377.96	Joback Method
dvisc	0.0010129	Pa×s	340.92	Joback Method
dvisc	0.0008813	Pa×s	303.87	Joback Method
dvisc	0.0007378	Pa×s	266.82	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C32787976&Units=SI

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