2-Ethylnorbornane (endo?)

Inchi: InChI=1S/C9H16/c1-2-8-5-7-3-4-9(8)6-7/h7-9H,2-6H2,1H3/t7?,8-,9?/m1/s1
InchiKey: DEMFSGPWYVAINM-QJAFJHJLSA-N
Formula: C9H16
SMILES: CCC1CC2CCC1C2
Mol. weight [g/mol]: 124.22

Physical Properties

Property code	Value	Unit	Source
gf	126.59	kJ/mol	Joback Method
hf	-109.99	kJ/mol	Joback Method
hfus	14.31	kJ/mol	Joback Method
hvap	35.32	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.833		Crippen Method
mcvol	115.950	ml/mol	McGowan Method
pc	2986.06	kPa	Joback Method
ripol	1020.20		NIST Webbook
tb	418.40	K	Joback Method
tc	617.34	K	Joback Method
tf	219.31	K	Joback Method
vc	0.445	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.04	J/mol×K	418.40	Joback Method
cpg	260.57	J/mol×K	451.56	Joback Method
cpg	278.04	J/mol×K	484.71	Joback Method
cpg	294.50	J/mol×K	517.87	Joback Method
cpg	309.99	J/mol×K	551.02	Joback Method
cpg	324.58	J/mol×K	584.18	Joback Method
cpg	338.31	J/mol×K	617.34	Joback Method
dvisc	0.0006635	Pa×s	219.31	Joback Method
dvisc	0.0006280	Pa×s	252.49	Joback Method

dvisc	0.0006020	Pa×s	285.67	Joback Method
dvisc	0.0005822	Pa×s	318.86	Joback Method
dvisc	0.0005666	Pa×s	352.04	Joback Method
dvisc	0.0005540	Pa×s	385.22	Joback Method
dvisc	0.0005436	Pa×s	418.40	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R211895&Units=SI
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

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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