

2-Ethylbornane (endo?)

Inchi:	InChI=1S/C9H16/c1-2-8-5-7-3-4-9(8)6-7/h7-9H,2-6H2,1H3/t??,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
mvol	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	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

dvisc	0.0006020	Paxs	285.67	Joback Method
dvisc	0.0005822	Paxs	318.86	Joback Method
dvisc	0.0005666	Paxs	352.04	Joback Method
dvisc	0.0005540	Paxs	385.22	Joback Method
dvisc	0.0005436	Paxs	418.40	Joback Method

Sources

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