5-Ethylindan

Inchi: InChI=1S/C11H14/c1-2-9-6-7-10-4-3-5-11(10)8-9/h6-8H,2-5H2,1H3
InchiKey: IFKCGHPIWWIUOG-UHFFFAOYSA-N
Formula: C11H14
SMILES: CCc1ccc2c(c1)CCC2
Mol. weight [g/mol]: 146.23

Physical Properties

Property code	Value	Unit	Source
gf	203.35	kJ/mol	Joback Method
hf	36.36	kJ/mol	Joback Method
hfus	14.57	kJ/mol	Joback Method
hvap	43.90	kJ/mol	Joback Method
log10ws	-3.36		Crippen Method
logp	2.738		Crippen Method
mcvol	131.230	ml/mol	McGowan Method
pc	3052.41	kPa	Joback Method
rinpol	1243.34		NIST Webbook
rinpol	1238.62		NIST Webbook
rinpol	1231.25		NIST Webbook
rinpol	1217.04		NIST Webbook
rinpol	1212.73		NIST Webbook
rinpol	1206.07		NIST Webbook
tb	499.13	K	Joback Method
tc	720.35	K	Joback Method
tf	287.37	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.20	J/mol×K	499.13	Joback Method
cpg	302.20	J/mol×K	536.00	Joback Method
cpg	317.14	J/mol×K	572.87	Joback Method
cpg	331.10	J/mol×K	609.74	Joback Method

cpg	344.13	J/mol×K	646.61	Joback Method
cpg	356.30	J/mol×K	683.48	Joback Method
cpg	367.68	J/mol×K	720.35	Joback Method
dvisc	0.0016819	Pa×s	287.37	Joback Method
dvisc	0.0011456	Pa×s	322.66	Joback Method
dvisc	0.0008416	Pa×s	357.96	Joback Method
dvisc	0.0006535	Pa×s	393.25	Joback Method
dvisc	0.0005290	Pa×s	428.54	Joback Method
dvisc	0.0004423	Pa×s	463.84	Joback Method
dvisc	0.0003792	Pa×s	499.13	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=R250647&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