(5-Ethylcyclopent-1-enyl)methanol

Inchi: InChI=1S/C8H14O/c1-2-7-4-3-5-8(7)6-9/h5,7,9H,2-4,6H2,1H3
InchiKey: PWPHPRWZLTZIPI-UHFFFAOYSA-N
Formula: C8H14O
SMILES: CCC1CCC=C1CO
Mol. weight [g/mol]: 126.20
CAS: 36431-59-1

Physical Properties

Property code	Value	Unit	Source
gf	-63.46	kJ/mol	Joback Method
hf	-253.89	kJ/mol	Joback Method
hfus	15.33	kJ/mol	Joback Method
hvap	51.29	kJ/mol	Joback Method
log10ws	-1.94		Crippen Method
logp	1.725		Crippen Method
mcvol	114.290	ml/mol	McGowan Method
pc	3488.88	kPa	Joback Method
rinpol	1073.00		NIST Webbook
tb	494.04	K	Joback Method
tc	680.76	K	Joback Method
tf	264.92	K	Joback Method
vc	0.429	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	258.78	J/mol×K	494.04	Joback Method
cpg	271.32	J/mol×K	525.16	Joback Method
cpg	283.25	J/mol×K	556.28	Joback Method
cpg	294.60	J/mol×K	587.40	Joback Method
cpg	305.39	J/mol×K	618.52	Joback Method
cpg	315.63	J/mol×K	649.64	Joback Method
cpg	325.35	J/mol×K	680.76	Joback Method
dvisc	0.0172801	Pa×s	264.92	Joback Method

dvisc	0.0051460	Pa×s	303.11	Joback Method
dvisc	0.0020097	Pa×s	341.29	Joback Method
dvisc	0.0009483	Pa×s	379.48	Joback Method
dvisc	0.0005134	Pa×s	417.67	Joback Method
dvisc	0.0003080	Pa×s	455.85	Joback Method
dvisc	0.0002000	Pa×s	494.04	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=C36431591&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
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