

5-Ethylcyclopentene-2-carbaldehyde

Inchi:	InChI=1S/C8H12O/c1-2-7-3-4-8(5-7)6-9/h5-7H,2-4H2,1H3
InchiKey:	UTZPMCWGHQBHYB-UHFFFAOYSA-N
Formula:	C8H12O
SMILES:	CCC1C=C(C=O)CC1
Mol. weight [g/mol]:	124.18

Physical Properties

Property code	Value	Unit	Source
gf	-26.16	kJ/mol	Joback Method
hf	-187.24	kJ/mol	Joback Method
hfus	13.53	kJ/mol	Joback Method
hvap	41.33	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.932		Crippen Method
mvol	109.990	ml/mol	McGowan Method
pc	3415.86	kPa	Joback Method
rinpol	1008.00		NIST Webbook
ripol	1410.00		NIST Webbook
tb	450.52	K	Joback Method
tc	653.47	K	Joback Method
tf	246.10	K	Joback Method
vc	0.427	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.00	J/molxK	450.52	Joback Method
cpg	239.46	J/molxK	484.34	Joback Method
cpg	252.22	J/molxK	518.17	Joback Method
cpg	264.30	J/molxK	551.99	Joback Method
cpg	275.74	J/molxK	585.82	Joback Method
cpg	286.54	J/molxK	619.64	Joback Method
cpg	296.74	J/molxK	653.47	Joback Method
dvisc	0.0024771	Paxs	246.10	Joback Method

dvisc	0.0014963	Paxs	280.17	Joback Method
dvisc	0.0010082	Paxs	314.24	Joback Method
dvisc	0.0007339	Paxs	348.31	Joback Method
dvisc	0.0005653	Paxs	382.38	Joback Method
dvisc	0.0004545	Paxs	416.45	Joback Method
dvisc	0.0003776	Paxs	450.52	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=R603417&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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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