Ethyl pipecolinate

Other names: 2-Piperidinecarboxylic acid, ethyl ester
ethyl piperidine-2-carboxylate
Inchi: InChI=1S/C8H15NO2/c1-2-11-8(10)7-5-3-4-6-9-7/h7,9H,2-6H2,1H3
InchiKey: SZIKRGHFZTYTIT-UHFFFAOYSA-N
Formula: C8H15NO2
SMILES: CCOC(=O)C1CCCCN1
Mol. weight [g/mol]: 157.21
CAS: 15862-72-3

Physical Properties

Property code	Value	Unit	Source
gf	-105.28	kJ/mol	Joback Method
hf	-361.12	kJ/mol	Joback Method
hfus	20.69	kJ/mol	Joback Method
hvap	49.75	kJ/mol	Joback Method
log10ws	-1.23		Crippen Method
logp	0.692		Crippen Method
mcvol	130.140	ml/mol	McGowan Method
pc	3419.86	kPa	Joback Method
tb	526.83	K	Joback Method
tc	743.86	K	Joback Method
tf	364.49	K	Joback Method
vc	0.477	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.11	J/mol×K	526.83	Joback Method
cpg	323.36	J/mol×K	563.00	Joback Method
cpg	338.81	J/mol×K	599.17	Joback Method
cpg	353.45	J/mol×K	635.35	Joback Method
cpg	367.28	J/mol×K	671.52	Joback Method
cpg	380.31	J/mol×K	707.69	Joback Method
cpg	392.53	J/mol×K	743.86	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15862723&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume