

ethyl 4-hydroxyhexanoate

Inchi:	InChI=1S/C8H16O3/c1-3-7(9)5-6-8(10)11-4-2/h7,9H,3-6H2,1-2H3
InchiKey:	WSZGBHSBZUYPBO-UHFFFAOYSA-N
Formula:	C8H16O3
SMILES:	CCOC(=O)CCC(O)CC
Mol. weight [g/mol]:	160.21

Physical Properties

Property code	Value	Unit	Source
gf	-356.70	kJ/mol	Joback Method
hf	-610.76	kJ/mol	Joback Method
hfus	19.83	kJ/mol	Joback Method
hvap	58.85	kJ/mol	Joback Method
log10ws	-1.41		Crippen Method
logp	1.101		Crippen Method
mcvol	136.890	ml/mol	McGowan Method
pc	2953.69	kPa	Joback Method
ripol	1826.00		NIST Webbook
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tb	550.47	K	Joback Method
tc	722.09	K	Joback Method
tf	297.90	K	Joback Method
vc	0.520	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.69	J/molxK	550.47	Joback Method
cpg	384.41	J/molxK	693.49	Joback Method
cpg	375.11	J/molxK	664.88	Joback Method
cpg	365.40	J/molxK	636.28	Joback Method
cpg	355.26	J/molxK	607.68	Joback Method
cpg	344.69	J/molxK	579.07	Joback Method
cpg	393.29	J/molxK	722.09	Joback Method
dvisc	0.0001040	Paxs	550.47	Joback Method

dvisc	0.0001680	Paxs	508.38	Joback Method
dvisc	0.0002959	Paxs	466.28	Joback Method
dvisc	0.0005834	Paxs	424.19	Joback Method
dvisc	0.0013358	Paxs	382.09	Joback Method
dvisc	0.0037547	Paxs	340.00	Joback Method
dvisc	0.0141338	Paxs	297.90	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=R390339&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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