

Ethyl 5,6-Epoxyhexanoate

Inchi:	InChI=1S/C8H14O3/c1-2-10-8(9)5-3-4-7-6-11-7/h7H,2-6H2,1H3
InchiKey:	IMJURUKQBKWFLX-UHFFFAOYSA-N
Formula:	C8H14O3
SMILES:	CCOC(=O)CCCC1CO1
Mol. weight [g/mol]:	158.19

Physical Properties

Property code	Value	Unit	Source
gf	-242.81	kJ/mol	Joback Method
hf	-512.45	kJ/mol	Joback Method
hfus	25.38	kJ/mol	Joback Method
hvap	46.98	kJ/mol	Joback Method
log10ws	-1.13		Crippen Method
logp	1.119		Crippen Method
mcvol	126.030	ml/mol	McGowan Method
pc	3022.28	kPa	Joback Method
rinsol	1214.00		NIST Webbook
tb	492.42	K	Joback Method
tc	680.92	K	Joback Method
tf	296.59	K	Joback Method
vc	0.485	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.49	J/molxK	492.42	Joback Method
cpg	352.97	J/molxK	649.50	Joback Method
cpg	342.43	J/molxK	618.09	Joback Method
cpg	331.33	J/molxK	586.67	Joback Method
cpg	319.66	J/molxK	555.25	Joback Method
cpg	307.38	J/molxK	523.84	Joback Method
cpg	362.97	J/molxK	680.92	Joback Method
dvisc	0.0005168	Paxs	492.42	Joback Method
dvisc	0.0006093	Paxs	459.78	Joback Method

dvisc	0.0007368	Paxs	427.14	Joback Method
dvisc	0.0009194	Paxs	394.50	Joback Method
dvisc	0.0011940	Paxs	361.87	Joback Method
dvisc	0.0016330	Paxs	329.23	Joback Method
dvisc	0.0023929	Paxs	296.59	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=R412716&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/20-029-7/Ethyl-5-6-Epoxyhexanoate.pdf>

Generated by Cheméo on 2024-05-03 20:03:22.839130476 +0000 UTC m=+17055851.759707788.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.