Ethyl 2-fluoro-2-propenyl ether

Inchi: InChI=1S/C5H9FO/c1-3-7-4-5(2)6/h2-4H2,1H3
InchiKey: ORUPLARUGLTIKM-UHFFFAOYSA-N
Formula: C5H9FO
SMILES: C=C(F)COCC
Mol. weight [g/mol]: 104.12

Physical Properties

Property code	Value	Unit	Source
gf	-229.30	kJ/mol	Joback Method
hf	-359.22	kJ/mol	Joback Method
hfus	10.38	kJ/mol	Joback Method
hvap	27.73	kJ/mol	Joback Method
log10ws	-1.20		Crippen Method
logp	1.506		Crippen Method
mcvol	84.650	ml/mol	McGowan Method
pc	3407.89	kPa	Joback Method
rinpol	626.00		NIST Webbook
rinpol	626.00		NIST Webbook
tb	332.05	K	Joback Method
tc	493.66	K	Joback Method
tf	153.21	K	Joback Method
vc	0.334	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	143.46	J/mol×K	332.05	Joback Method
cpg	151.28	J/mol×K	358.98	Joback Method
cpg	158.87	J/mol×K	385.92	Joback Method
cpg	166.23	J/mol×K	412.85	Joback Method
cpg	173.36	J/mol×K	439.79	Joback Method
cpg	180.27	J/mol×K	466.72	Joback Method
cpg	186.96	J/mol×K	493.66	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R511650&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
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/48-388-9/Ethyl-2-fluoro-2-propenyl-ether.pdf
Generated by Cheméo on 2024-04-23 12:48:45.039777019 +0000 UTC m=+16165773.960354331.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.