1,4-Bis-(vinyloxy)-butane

Other names:	1,4-di(Vinyloxy)butane
	1,4-Butanediol divinyl ether
	Butane, 1,4-bis(ethenyloxy)-
	Butane, 1,4-bis(vinyloxy)-
	Butanediol divinyl ether
Inchi:	InChI=1S/C8H14O2/c1-3-9-7-5-6-8-10-4-2/h3-4H,1-2,5-8H2
InchiKey:	MWZJGRDWJVHRDV-UHFFFAOYSA-N
Formula:	C8H14O2
SMILES:	C=COCCCCOC=C
Mol. weight [g/mol]:	142.20
CAS:	3891-33-6

Physical Properties

Property code	Value	Unit	Source
gf	-17.84	kJ/mol	Joback Method
hf	-222.03	kJ/mol	Joback Method
hfus	16.29	kJ/mol	Joback Method
hvap	36.88	kJ/mol	Joback Method
log10ws	-2.04		Crippen Method
logp	2.087		Crippen Method
mcvol	126.720	ml/mol	McGowan Method
pc	2668.02	kPa	Joback Method
tb	420.64	K	Joback Method
tc	591.41	K	Joback Method
tf	220.86	K	Joback Method
vc	0.481	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.58	J/mol×K	591.41	Joback Method
cpg	304.04	J/mol×K	562.95	Joback Method
cpg	294.15	J/mol×K	534.49	Joback Method
cpg	283.90	J/mol×K	506.03	Joback Method

cpg	273.29	J/mol×K	477.56	Joback Method
cpg	262.32	J/mol×K	449.10	Joback Method
cpg	250.99	J/mol×K	420.64	Joback Method
dvisc	0.0023745	Pa×s	220.86	Joback Method
dvisc	0.0001887	Pa×s	420.64	Joback Method
dvisc	0.0002401	Pa×s	387.34	Joback Method
dvisc	0.0003195	Pa×s	354.05	Joback Method
dvisc	0.0004513	Pa×s	320.75	Joback Method
dvisc	0.0006904	Pa×s	287.45	Joback Method
dvisc	0.0011809	Pa×s	254.16	Joback Method
hvapt	49.00	kJ/mol	387.50	NIST Webbook

Sources

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=C3891336&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hvapt: Enthalpy of vaporization at a given temperature
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