

Ethylene glycol diallyl ether

Other names:	1-Propene, 3,3'-[1,2-ethanediylbis(oxy)]bis- 1,2-Bis(2-propenyloxy)ethane Diallylether ethylenglykolu 1,2-Bis(allyloxy)ethane 3,3'-[1,2-ethanediylbis(oxy)]dipropene
Inchi:	InChI=1S/C8H14O2/c1-3-5-9-7-8-10-6-4-2/h3-4H,1-2,5-8H2
InchiKey:	CARNFEUGBMWTON-UHFFFAOYSA-N
Formula:	C8H14O2
SMILES:	C=CCOCCOCC=C
Mol. weight [g/mol]:	142.20
CAS:	7529-27-3

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	-1.05		Crippen Method
logp	1.392		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	250.99	J/mol×K	420.64	Joback Method
cpg	262.32	J/mol×K	449.10	Joback Method
cpg	273.29	J/mol×K	477.56	Joback Method
cpg	283.90	J/mol×K	506.03	Joback Method

cpg	294.15	J/mol×K	534.49	Joback Method
cpg	304.04	J/mol×K	562.95	Joback Method
cpg	313.58	J/mol×K	591.41	Joback Method
dvisc	0.0023745	Pa×s	220.86	Joback Method
dvisc	0.0011809	Pa×s	254.16	Joback Method
dvisc	0.0006904	Pa×s	287.45	Joback Method
dvisc	0.0004513	Pa×s	320.75	Joback Method
dvisc	0.0003195	Pa×s	354.05	Joback Method
dvisc	0.0002401	Pa×s	387.34	Joback Method
dvisc	0.0001887	Pa×s	420.64	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7529273&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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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