

Ethanol, 2-[2-(2-propenyloxy)ethoxy]-

Other names:	2-[2-(allyloxy)ethoxy]ethanol
Inchi:	InChI=1S/C7H14O3/c1-2-4-9-6-7-10-5-3-8/h2,8H,1,3-7H2
InchiKey:	DIOZVWSHACHNRT-UHFFFAOYSA-N
Formula:	C7H14O3
SMILES:	C=CCOCCOCCO
Mol. weight [g/mol]:	146.18
CAS:	15075-50-0

Physical Properties

Property code	Value	Unit	Source
gf	-250.92	kJ/mol	Joback Method
hf	-479.05	kJ/mol	Joback Method
hfus	19.07	kJ/mol	Joback Method
hvap	52.00	kJ/mol	Joback Method
log10ws	-0.04		Crippen Method
logp	0.198		Crippen Method
mcvol	122.800	ml/mol	McGowan Method
pc	3121.00	kPa	Joback Method
tb	493.26	K	Joback Method
tc	656.61	K	Joback Method
tf	272.17	K	Joback Method
vc	0.464	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	277.22	J/mol×K	493.26	Joback Method
cpg	286.96	J/mol×K	520.49	Joback Method
cpg	296.39	J/mol×K	547.71	Joback Method
cpg	305.52	J/mol×K	574.94	Joback Method
cpg	314.34	J/mol×K	602.16	Joback Method
cpg	322.86	J/mol×K	629.39	Joback Method
cpg	331.06	J/mol×K	656.61	Joback Method
dvisc	0.0137879	Pa×s	272.17	Joback Method

dvisc	0.0039243	Pa×s	309.02	Joback Method
dvisc	0.0014599	Pa×s	345.87	Joback Method
dvisc	0.0006570	Pa×s	382.72	Joback Method
dvisc	0.0003402	Pa×s	419.56	Joback Method
dvisc	0.0001959	Pa×s	456.41	Joback Method
dvisc	0.0001225	Pa×s	493.26	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15075500&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
mccvol:	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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