2-(2-ethylbutoxy)ethanol

Inchi: InChI=1S/C8H18O2/c1-3-8(4-2)7-10-6-5-9/h8-9H,3-7H2,1-2H3
InchiKey: ZKCAGDPACLOVBN-UHFFFAOYSA-N
Formula: C8H18O2
SMILES: CCC(CC)COCCO
Mol. weight [g/mol]: 146.23
CAS: 4468-93-3

Physical Properties

Property code	Value	Unit	Source
hf	-497.88	kJ/mol	Cheméo Relay (1.0)
hfus	18.23	kJ/mol	Joback Method
hvap	61.96	kJ/mol	Cheméo Relay (1.0)
ie	9.62	eV	Cheméo Relay (1.0)
log10ws	-1.15		Cheméo Relay (1.0)
logp	1.432		Crippen Method
mcvol	135.320	ml/mol	McGowan Method
pc	2761.36	kPa	Joback Method
tb	484.27	K	Cheméo Relay (1.0)
tc	666.82	K	Cheméo Relay (1.0)
tf	193.30	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	314.82	J/mol×K	496.60	Joback Method
cpg	326.49	J/mol×K	523.74	Joback Method
cpg	337.75	J/mol×K	550.88	Joback Method
cpg	348.62	J/mol×K	578.03	Joback Method
cpg	359.09	J/mol×K	605.17	Joback Method
cpg	369.17	J/mol×K	632.31	Joback Method
cpg	378.87	J/mol×K	659.45	Joback Method
dvisc	0.0479997	Pa×s	247.97	Joback Method
dvisc	0.0087734	Pa×s	289.41	Joback Method
dvisc	0.0024546	Pa×s	330.85	Joback Method

dvisc	0.0009119	Pa×s	372.28	Joback Method
dvisc	0.0004131	Pa×s	413.72	Joback Method
dvisc	0.0002162	Pa×s	455.16	Joback Method
dvisc	0.0001260	Pa×s	496.60	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.67032e+01
Coeff. B	-4.83332e+03
Coeff. C	-7.40710e+01
Temperature range (K), min.	368.51
Temperature range (K), max.	498.35

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l

logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point