2-Propanol, 1-(2-ethoxypropoxy)-

Other names: 1-(2-ethoxypropoxy)-2-propanol
1-(2-ethoxypropoxy)propan-2-ol
Inchi: InChI=1S/C8H18O3/c1-4-11-8(3)6-10-5-7(2)9/h7-9H,4-6H2,1-3H3
InchiKey: QWOZZTWBWQMEPD-UHFFFAOYSA-N
Formula: C8H18O3
SMILES: CCOC(C)COCC(C)O
Mol. weight [g/mol]: 162.23
CAS: 10143-32-5

Physical Properties

Property code	Value	Unit	Source
gf	-335.22	kJ/mol	Joback Method
hf	-635.68	kJ/mol	Joback Method
hfus	15.89	kJ/mol	Joback Method
hvap	54.12	kJ/mol	Joback Method
log10ws	-0.83		Crippen Method
logp	0.809		Crippen Method
mcvol	141.190	ml/mol	McGowan Method
pc	2735.42	kPa	Joback Method
ripol	1436.00		NIST Webbook
tb	518.58	K	Joback Method
tc	684.36	K	Joback Method
tf	255.20	K	Joback Method
vc	0.526	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	339.69	J/mol×K	518.58	Joback Method
cpg	394.94	J/mol×K	656.73	Joback Method
cpg	384.68	J/mol×K	629.10	Joback Method
cpg	374.02	J/mol×K	601.47	Joback Method
cpg	362.96	J/mol×K	573.84	Joback Method
cpg	351.52	J/mol×K	546.21	Joback Method

cpg	404.81	J/mol×K	684.36	Joback Method
dvisc	0.0000880	Pa×s	518.58	Joback Method
dvisc	0.0001531	Pa×s	474.68	Joback Method
dvisc	0.0002979	Pa×s	430.79	Joback Method
dvisc	0.0006747	Pa×s	386.89	Joback Method
dvisc	0.0018832	Pa×s	342.99	Joback Method
dvisc	0.0071048	Pa×s	299.10	Joback Method
dvisc	0.0423244	Pa×s	255.20	Joback Method

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=C10143325&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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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