2-Propoxyethyl acetate

Inchi: InChI=1S/C7H14O3/c1-3-4-9-5-6-10-7(2)8/h3-6H2,1-2H3
InchiKey: QMAQLCVJIYANPZ-UHFFFAOYSA-N
Formula: C7H14O3
SMILES: CCCOCCOC(C)=O
Mol. weight [g/mol]: 146.18
CAS: 20706-25-6

Physical Properties

Property code	Value	Unit	Source
gf	-330.86	kJ/mol	Joback Method
hf	-564.83	kJ/mol	Joback Method
hfus	17.86	kJ/mol	Joback Method
hvap	55.60 ± 0.10	kJ/mol	NIST Webbook
hvap	55.62 ± 0.08	kJ/mol	NIST Webbook
log10ws	-0.70		Crippen Method
logp	0.976		Crippen Method
mcvol	122.800	ml/mol	McGowan Method
pc	2887.40	kPa	Joback Method
tb	458.27	K	Joback Method
tc	634.29	K	Joback Method
tf	263.04	K	Joback Method
vc	0.469	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.73	J/mol×K	458.27	Joback Method
cpg	313.23	J/mol×K	604.95	Joback Method
cpg	303.59	J/mol×K	575.61	Joback Method
cpg	293.62	J/mol×K	546.28	Joback Method
cpg	283.31	J/mol×K	516.94	Joback Method
cpg	272.68	J/mol×K	487.61	Joback Method
cpg	322.52	J/mol×K	634.29	Joback Method
dvisc	0.0002277	Pa×s	458.27	Joback Method

dvisc	0.0002905	Pa×s	425.73	Joback Method
dvisc	0.0003858	Pa×s	393.19	Joback Method
dvisc	0.0005394	Pa×s	360.65	Joback Method
dvisc	0.0008058	Pa×s	328.12	Joback Method
dvisc	0.0013150	Pa×s	295.58	Joback Method
dvisc	0.0024226	Pa×s	263.04	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C20706256&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