3-(3-Methoxypropoxy)-1-propanol

Other names: 3-(3-methoxypropoxy)propanol
Inchi: InChI=1S/C7H16O3/c1-9-5-3-7-10-6-2-4-8/h8H,2-7H2,1H3
InchiKey: QCAHUFWKIQLBNB-UHFFFAOYSA-N
Formula: C7H16O3
SMILES: COCCCOCCCO
Mol. weight [g/mol]: 148.20
CAS: 112-28-7

Physical Properties

Property code	Value	Unit	Source
gf	-338.76	kJ/mol	Joback Method
hf	-604.48	kJ/mol	Joback Method
hfus	20.35	kJ/mol	Joback Method
hvap	52.67	kJ/mol	Joback Method
log10ws	-0.19		Crippen Method
logp	0.422		Crippen Method
mcvol	127.100	ml/mol	McGowan Method
pc	2979.54	kPa	Joback Method
tb	496.58	K	Joback Method
tc	657.16	K	Joback Method
tf	273.93	K	Joback Method
vc	0.482	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.88	J/mol×K	496.58	Joback Method
cpg	343.52	J/mol×K	630.39	Joback Method
cpg	334.40	J/mol×K	603.63	Joback Method
cpg	324.98	J/mol×K	576.87	Joback Method
cpg	315.24	J/mol×K	550.11	Joback Method
cpg	305.21	J/mol×K	523.34	Joback Method
cpg	352.32	J/mol×K	657.16	Joback Method
dvisc	0.0001188	Pa×s	496.58	Joback Method

dvisc	0.0001914	Pa×s	459.47	Joback Method
dvisc	0.0003353	Pa×s	422.36	Joback Method
dvisc	0.0006546	Pa×s	385.25	Joback Method
dvisc	0.0014739	Pa×s	348.15	Joback Method
dvisc	0.0040273	Pa×s	311.04	Joback Method
dvisc	0.0144494	Pa×s	273.93	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=C112287&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume