2-Methoxyethyl caprate

Inchi: InChI=1S/C13H26O3/c1-3-4-5-6-7-8-9-10-13(14)16-12-11-15-2/h3-12H2,1-2H3
InchiKey: KVDWWTAXZZWUPG-UHFFFAOYSA-N
Formula: C13H26O3
SMILES: CCCCCCCCCC(=O)OCCOC
Mol. weight [g/mol]: 230.34

Physical Properties

Property code	Value	Unit	Source
gf	-280.34	kJ/mol	Joback Method
hf	-688.67	kJ/mol	Joback Method
hfus	33.40	kJ/mol	Joback Method
hvap	56.10	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	3.317		Crippen Method
mcvol	207.340	ml/mol	McGowan Method
pc	1683.79	kPa	Joback Method
rinpol	1577.00		NIST Webbook
tb	595.55	K	Joback Method
tc	764.22	K	Joback Method
tf	330.66	K	Joback Method
vc	0.805	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	543.50	J/mol×K	595.55	Joback Method
cpg	559.59	J/mol×K	623.66	Joback Method
cpg	575.06	J/mol×K	651.77	Joback Method
cpg	589.90	J/mol×K	679.89	Joback Method
cpg	604.13	J/mol×K	708.00	Joback Method
cpg	617.73	J/mol×K	736.11	Joback Method
cpg	630.73	J/mol×K	764.22	Joback Method
dvisc	0.0020526	Pa×s	330.66	Joback Method
dvisc	0.0009978	Pa×s	374.81	Joback Method

dvisc	0.0005647	Pa×s	418.96	Joback Method
dvisc	0.0003562	Pa×s	463.10	Joback Method
dvisc	0.0002435	Pa×s	507.25	Joback Method
dvisc	0.0001769	Pa×s	551.40	Joback Method
dvisc	0.0001347	Pa×s	595.55	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R540648&Units=SI

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume