

1-Methyl-2-methoxyethyl caprate

Inchi:	InChI=1S/C14H28O3/c1-4-5-6-7-8-9-10-11-14(15)17-13(2)12-16-3/h13H,4-12H2,1-3H3
InchiKey:	RZGLIYACDYMWED-UHFFFAOYSA-N
Formula:	C14H28O3
SMILES:	CCCCCCCCC(=O)OC(C)COC
Mol. weight [g/mol]:	244.37

Physical Properties

Property code	Value	Unit	Source
gf	-274.36	kJ/mol	Joback Method
hf	-714.59	kJ/mol	Joback Method
hfus	32.47	kJ/mol	Joback Method
hvap	57.94	kJ/mol	Joback Method
log10ws	-3.74		Crippen Method
logp	3.705		Crippen Method
mcvol	221.430	ml/mol	McGowan Method
pc	1568.47	kPa	Joback Method
rinpol	1601.00		NIST Webbook
rinpol	1601.00		NIST Webbook
tb	617.99	K	Joback Method
tc	788.61	K	Joback Method
tf	326.93	K	Joback Method
vc	0.856	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	596.87	J/molxK	617.99	Joback Method
cpg	674.74	J/molxK	760.17	Joback Method
cpg	660.54	J/molxK	731.74	Joback Method
cpg	645.65	J/molxK	703.30	Joback Method
cpg	630.08	J/molxK	674.86	Joback Method
cpg	613.82	J/molxK	646.43	Joback Method
cpg	688.27	J/molxK	788.61	Joback Method
dvisc	0.0001121	Paxs	617.99	Joback Method

dvisc	0.0001509	Paxs	569.48	Joback Method
dvisc	0.0002147	Paxs	520.97	Joback Method
dvisc	0.0003285	Paxs	472.46	Joback Method
dvisc	0.0005538	Paxs	423.95	Joback Method
dvisc	0.0010686	Paxs	375.44	Joback Method
dvisc	0.0025063	Paxs	326.93	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R540099&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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