

2-Methoxyethyl tridecanoate

Inchi:	InChI=1S/C16H32O3/c1-3-4-5-6-7-8-9-10-11-12-13-16(17)19-15-14-18-2/h3-15H2,1-2H3
InchiKey:	AENFRMQAFQEFAH-UHFFFAOYSA-N
Formula:	C16H32O3
SMILES:	CCCCCCCCCCCC(=O)OCCOC
Mol. weight [g/mol]:	272.42

Physical Properties

Property code	Value	Unit	Source
gf	-255.08	kJ/mol	Joback Method
hf	-750.59	kJ/mol	Joback Method
hfus	41.17	kJ/mol	Joback Method
hvap	62.78	kJ/mol	Joback Method
log10ws	-4.47		Crippen Method
logp	4.487		Crippen Method
mcvol	249.610	ml/mol	McGowan Method
pc	1346.69	kPa	Joback Method
rinsol	1875.00		NIST Webbook
tb	664.19	K	Joback Method
tc	832.28	K	Joback Method
tf	364.47	K	Joback Method
vc	0.974	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	706.72	J/molxK	664.19	Joback Method
cpg	787.68	J/molxK	804.26	Joback Method
cpg	772.96	J/molxK	776.25	Joback Method
cpg	757.52	J/molxK	748.23	Joback Method
cpg	741.34	J/molxK	720.22	Joback Method
cpg	724.41	J/molxK	692.20	Joback Method
cpg	801.67	J/molxK	832.28	Joback Method
dvisc	0.0000944	Paxs	664.19	Joback Method
dvisc	0.0001253	Paxs	614.24	Joback Method

dvisc	0.0001747	Paxs	564.28	Joback Method
dvisc	0.0002598	Paxs	514.33	Joback Method
dvisc	0.0004210	Paxs	464.38	Joback Method
dvisc	0.0007663	Paxs	414.42	Joback Method
dvisc	0.0016436	Paxs	364.47	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R540757&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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