

2-Methoxyethyl nonanoate

Inchi:	InChI=1S/C12H24O3/c1-3-4-5-6-7-8-9-12(13)15-11-10-14-2/h3-11H2,1-2H3
InchiKey:	SWYNLZZOIDBOEM-UHFFFAOYSA-N
Formula:	C12H24O3
SMILES:	CCCCCCCCC(=O)OCCOC
Mol. weight [g/mol]:	216.32

Physical Properties

Property code	Value	Unit	Source
gf	-288.76	kJ/mol	Joback Method
hf	-668.03	kJ/mol	Joback Method
hfus	30.81	kJ/mol	Joback Method
hvap	53.87	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.927		Crippen Method
mvol	193.250	ml/mol	McGowan Method
pc	1824.72	kPa	Joback Method
rinpol	1506.00		NIST Webbook
rinpol	1477.00		NIST Webbook
tb	572.67	K	Joback Method
tc	742.18	K	Joback Method
tf	319.39	K	Joback Method
vc	0.750	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	492.05	J/molxK	572.67	Joback Method
cpg	507.51	J/molxK	600.92	Joback Method
cpg	522.38	J/molxK	629.17	Joback Method
cpg	536.68	J/molxK	657.42	Joback Method
cpg	550.39	J/molxK	685.68	Joback Method
cpg	563.53	J/molxK	713.93	Joback Method
cpg	576.09	J/molxK	742.18	Joback Method
dvisc	0.0021740	Paxs	319.39	Joback Method

dvisc	0.0010734	Paxs	361.60	Joback Method
dvisc	0.0006143	Paxs	403.82	Joback Method
dvisc	0.0003907	Paxs	446.03	Joback Method
dvisc	0.0002687	Paxs	488.24	Joback Method
dvisc	0.0001962	Paxs	530.46	Joback Method
dvisc	0.0001500	Paxs	572.67	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U378251&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
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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