

Methyl 10-hydroxy-8-decenoate

Inchi:	InChI=1S/C11H20O3/c1-14-11(13)9-7-5-3-2-4-6-8-10-12/h6,8,12H,2-5,7,9-10H2,1H3/b8-
InchiKey:	YFYDEZMIUOGZLE-SOFGYWHQSA-N
Formula:	C11H20O3
SMILES:	COC(=O)CCCCCCC=CCO
Mol. weight [g/mol]:	200.27

Physical Properties

Property code	Value	Unit	Source
gf	-248.78	kJ/mol	Joback Method
hf	-550.18	kJ/mol	Joback Method
hfus	31.32	kJ/mol	Joback Method
hvap	65.87	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	2.048		Crippen Method
mcvol	174.860	ml/mol	McGowan Method
pc	2302.53	kPa	Joback Method
rinpol	1587.00		NIST Webbook
rinpol	1587.00		NIST Webbook
ripol	2283.00		NIST Webbook
ripol	2283.00		NIST Webbook
tb	623.71	K	Joback Method
tc	795.65	K	Joback Method
tf	341.63	K	Joback Method
vc	0.674	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	457.75	J/mol×K	623.71	Joback Method
cpg	470.25	J/mol×K	652.37	Joback Method
cpg	482.20	J/mol×K	681.02	Joback Method
cpg	493.61	J/mol×K	709.68	Joback Method
cpg	504.49	J/mol×K	738.34	Joback Method
cpg	514.87	J/mol×K	766.99	Joback Method

cpg	524.76	J/mol×K	795.65	Joback Method
dvisc	0.0049477	Pa×s	341.63	Joback Method
dvisc	0.0014790	Pa×s	388.64	Joback Method
dvisc	0.0005737	Pa×s	435.66	Joback Method
dvisc	0.0002677	Pa×s	482.67	Joback Method
dvisc	0.0001430	Pa×s	529.68	Joback Method
dvisc	0.0000846	Pa×s	576.70	Joback Method
dvisc	0.0000542	Pa×s	623.71	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R149498&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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