1-Octen-3-ol, 3,7-dimethyl-

Other names:	3,7-dimethyl-1-octen-3-ol
	3,7-dimethyloct-1-en-3-ol
Inchi:	InChI=1S/C10H20O/c1-5-10(4,11)8-6-7-9(2)3/h5,9,11H,1,6-8H2,2-4H3
InchiKey:	IUDWWFNDSJRYRV-UHFFFAOYSA-N
Formula:	C10H20O
SMILES:	C=CC(C)(O)CCCC(C)C
Mol. weight [g/mol]:	156.27
CAS:	18479-49-7

Physical Properties

Property code	Value	Unit	Source
gf	-15.26	kJ/mol	Joback Method
hf	-290.56	kJ/mol	Joback Method
hfus	13.53	kJ/mol	Joback Method
hvap	52.18	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	2.750		Crippen Method
mcvol	153.330	ml/mol	McGowan Method
pc	2458.04	kPa	Joback Method
rinpol	1106.00		NIST Webbook
rinpol	1124.00		NIST Webbook
rinpol	1122.00		NIST Webbook
rinpol	1135.00		NIST Webbook
rinpol	1122.00		NIST Webbook
rinpol	1119.90		NIST Webbook
rinpol	1135.00		NIST Webbook
rinpol	1124.00		NIST Webbook
rinpol	1135.00		NIST Webbook
rinpol	1118.00		NIST Webbook
rinpol	1124.00		NIST Webbook
rinpol	1124.00		NIST Webbook
tb	513.39	K	Joback Method
tc	686.25	K	Joback Method
tf	248.94	K	Joback Method
vc	0.579	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	365.09	J/mol×K	513.39	Joback Method
cpg	427.97	J/mol×K	657.44	Joback Method
cpg	416.64	J/mol×K	628.63	Joback Method
cpg	404.72	J/mol×K	599.82	Joback Method
cpg	392.18	J/mol×K	571.01	Joback Method
cpg	378.98	J/mol×K	542.20	Joback Method
cpg	438.72	J/mol×K	686.25	Joback Method
dvisc	0.0001180	Pa×s	513.39	Joback Method
dvisc	0.0002113	Pa×s	469.31	Joback Method
dvisc	0.0004269	Pa×s	425.24	Joback Method
dvisc	0.0010150	Pa×s	381.16	Joback Method
dvisc	0.0030263	Pa×s	337.09	Joback Method
dvisc	0.0125347	Pa×s	293.01	Joback Method
dvisc	0.0858755	Pa×s	248.94	Joback Method

Sources

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=C18479497&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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