

5-Octen-1-ol, (Z)-, 3-methylbutanoate

Other names:	(Z)-5-Octen-1-yl 3-methylbutanoate
Inchi:	InChI=1S/C13H24O2/c1-4-5-6-7-8-9-10-15-13(14)11-12(2)3/h5-6,12H,4,7-11H2,1-3H3/b
InchiKey:	ZWSJDKUYXLNKRR-WAYWQWQTS-A-N
Formula:	C13H24O2
SMILES:	CCC=CCCCOC(=O)CC(C)C
Mol. weight [g/mol]:	212.33

Physical Properties

Property code	Value	Unit	Source
gf	-97.56	kJ/mol	Joback Method
hf	-444.51	kJ/mol	Joback Method
hfus	28.89	kJ/mol	Joback Method
hvap	53.26	kJ/mol	Joback Method
log10ws	-3.74		Crippen Method
logp	3.712		Crippen Method
mcpvol	197.170	ml/mol	McGowan Method
pc	1795.46	kPa	Joback Method
rinpol	1414.00		NIST Webbook
rinpol	1415.00		NIST Webbook
rinpol	1414.00		NIST Webbook
rinpol	1416.00		NIST Webbook
rinpol	1414.00		NIST Webbook
tb	576.85	K	Joback Method
tc	755.04	K	Joback Method
tf	288.35	K	Joback Method
vc	0.761	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	496.13	J/mol×K	576.85	Joback Method
cpg	512.41	J/mol×K	606.55	Joback Method
cpg	527.97	J/mol×K	636.25	Joback Method
cpg	542.83	J/mol×K	665.95	Joback Method

cpg	557.00	J/molxK	695.64	Joback Method
cpg	570.51	J/molxK	725.34	Joback Method
cpg	583.37	J/molxK	755.04	Joback Method
dvisc	0.0037720	Paxs	288.35	Joback Method
dvisc	0.0014586	Paxs	336.43	Joback Method
dvisc	0.0007154	Paxs	384.52	Joback Method
dvisc	0.0004110	Paxs	432.60	Joback Method
dvisc	0.0002639	Paxs	480.68	Joback Method
dvisc	0.0001836	Paxs	528.77	Joback Method
dvisc	0.0001357	Paxs	576.85	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R75688&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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