

# (Z)-4-Octen-1-yl 3-methylbutanoate

<b>Other names:</b>	4-Octen-1-ol, (Z)-, 3-methylbutanoate
<b>Inchi:</b>	InChI=1S/C13H24O2/c1-4-5-6-7-8-9-10-15-13(14)11-12(2)3/h6-7,12H,4-5,8-11H2,1-3H3
<b>InchiKey:</b>	FONUJUCWDOZQDI-SREVYHEPSA-N
<b>Formula:</b>	C13H24O2
<b>SMILES:</b>	CCCC=CCCCOC(=O)CC(C)C
<b>Mol. weight [g/mol]:</b>	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
mcvol	197.170	ml/mol	McGowan Method
pc	1795.46	kPa	Joback Method
rinpol	1406.00		NIST Webbook
rinpol	1407.00		NIST Webbook
rinpol	1404.00		NIST Webbook
rinpol	1404.00		NIST Webbook
rinpol	1404.00		NIST Webbook
tb	576.85	K	Joback Method
tc	755.04	K	Joback Method
tf	288.35	K	Joback Method
vc	0.761	m3/kmol	Joback Method

## Temperature Dependent Properties

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

cpg	557.00	J/mol×K	695.64	Joback Method
cpg	570.51	J/mol×K	725.34	Joback Method
cpg	583.37	J/mol×K	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

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R75642&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R75642&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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