

# octyl 2-hydroxypropanoate

<b>Inchi:</b>	InChI=1S/C11H22O3/c1-3-4-5-6-7-8-9-14-11(13)10(2)12/h10,12H,3-9H2,1-2H3
<b>InchiKey:</b>	SFBIZPBTkROSDE-UHFFFAOYSA-N
<b>Formula:</b>	C11H22O3
<b>SMILES:</b>	CCCCCCCCOC(=O)C(C)O
<b>Mol. weight [g/mol]:</b>	202.29

## Physical Properties

Property code	Value	Unit	Source
gf	-331.44	kJ/mol	Joback Method
hf	-672.68	kJ/mol	Joback Method
hfus	27.60	kJ/mol	Joback Method
hvap	65.53	kJ/mol	Joback Method
log10ws	-1.27		Aqueous Solubility Prediction Method
logp	2.271		Crippen Method
mvol	179.160	ml/mol	McGowan Method
pc	2208.29	kPa	Joback Method
tb	619.11	K	Joback Method
tc	788.09	K	Joback Method
tf	331.71	K	Joback Method
vc	0.689	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	479.00	J/molxK	619.11	Joback Method
cpg	492.23	J/molxK	647.27	Joback Method
cpg	504.91	J/molxK	675.44	Joback Method
cpg	517.04	J/molxK	703.60	Joback Method
cpg	528.63	J/molxK	731.76	Joback Method
cpg	539.68	J/molxK	759.93	Joback Method
cpg	550.21	J/molxK	788.09	Joback Method
dvisc	0.0077301	Paxs	331.71	Joback Method
dvisc	0.0020635	Paxs	379.61	Joback Method

dvisc	0.0007406	Paxs	427.51	Joback Method
dvisc	0.0003267	Paxs	475.41	Joback Method
dvisc	0.0001675	Paxs	523.31	Joback Method
dvisc	0.0000960	Paxs	571.21	Joback Method
dvisc	0.0000600	Paxs	619.11	Joback Method

## Sources

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## 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>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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