

# propyl octanoate-d15

<b>Inchi:</b>	InChI=1S/C11H22O2/c1-3-5-6-7-8-9-11(12)13-10-4-2/h3-10H2,1-2H3/i1D3,3D2,5D2,6D2
<b>InchiKey:</b>	IDHBLVYDNJDWNO-MVIIYOROSA-N
<b>Formula:</b>	C11H7D15O2
<b>SMILES:</b>	CCCCCCCC(=O)OCCC
<b>Mol. weight [g/mol]:</b>	201.38

## Physical Properties

Property code	Value	Unit	Source
gf	-192.18	kJ/mol	Joback Method
hf	-515.17	kJ/mol	Joback Method
hfus	27.03	kJ/mol	Joback Method
hvap	49.24	kJ/mol	Joback Method
log10ws	-3.29		Crippen Method
logp	3.300		Crippen Method
mvol	173.290	ml/mol	McGowan Method
pc	2014.51	kPa	Joback Method
ripol	1506.00		NIST Webbook
ripol	1506.00		NIST Webbook
tb	527.37	K	Joback Method
tc	698.36	K	Joback Method
tf	285.89	K	Joback Method
vc	0.675	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	415.24	J/molxK	527.37	Joback Method
cpg	430.19	J/molxK	555.87	Joback Method
cpg	444.58	J/molxK	584.37	Joback Method
cpg	458.41	J/molxK	612.87	Joback Method
cpg	471.67	J/molxK	641.36	Joback Method
cpg	484.39	J/molxK	669.86	Joback Method
cpg	496.57	J/molxK	698.36	Joback Method
dvisc	0.0032030	Paxs	285.89	Joback Method

dvisc	0.0015281	Paxs	326.14	Joback Method
dvisc	0.0008577	Paxs	366.38	Joback Method
dvisc	0.0005398	Paxs	406.63	Joback Method
dvisc	0.0003692	Paxs	446.88	Joback Method
dvisc	0.0002689	Paxs	487.12	Joback Method
dvisc	0.0002056	Paxs	527.37	Joback Method

## Sources

<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=R329189&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R329189&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	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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