

# 2-methylbutyl-d-3 hexanoate

Inchi:	InChI=1S/C11H22O2/c1-4-6-7-8-11(12)13-9-10(3)5-2/h10H,4-9H2,1-3H3/i2D3
InchiKey:	ZWMQVDONBUJJLL-BMSJAHLVSA-N
Formula:	C11H19D3O2
SMILES:	CCCCC(=O)OCC(C)CC
Mol. weight [g/mol]:	189.31

## Physical Properties

Property code	Value	Unit	Source
gf	-194.62	kJ/mol	Joback Method
hf	-520.45	kJ/mol	Joback Method
hfus	23.51	kJ/mol	Joback Method
hvap	48.85	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	3.156		Crippen Method
mcvol	173.290	ml/mol	McGowan Method
pc	2029.06	kPa	Joback Method
ripol	1456.00		NIST Webbook
tb	526.93	K	Joback Method
tc	701.19	K	Joback Method
tf	270.89	K	Joback Method
vc	0.669	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	415.48	J/molxK	526.93	Joback Method
cpg	486.09	J/molxK	672.15	Joback Method
cpg	473.13	J/molxK	643.11	Joback Method
cpg	459.60	J/molxK	614.06	Joback Method
cpg	445.49	J/molxK	585.02	Joback Method
cpg	430.78	J/molxK	555.97	Joback Method
cpg	498.48	J/molxK	701.19	Joback Method
dvisc	0.0001937	Paxs	526.93	Joback Method
dvisc	0.0002597	Paxs	484.26	Joback Method

dvisc	0.0003684	Paxs	441.58	Joback Method
dvisc	0.0005632	Paxs	398.91	Joback Method
dvisc	0.0009531	Paxs	356.24	Joback Method
dvisc	0.0018616	Paxs	313.56	Joback Method
dvisc	0.0044896	Paxs	270.89	Joback Method

## Sources

<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>
<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=R322599&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R322599&amp;Units=SI</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>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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