

# Isobutyl 2-hexenoate

<b>Inchi:</b>	InChI=1S/C10H18O2/c1-4-5-6-7-10(11)12-8-9(2)3/h6-7,9H,4-5,8H2,1-3H3/b7-6+
<b>InchiKey:</b>	OBQBHLUEVSMCJS-VOTSOKGWSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	CCCC=CC(=O)OCC(C)C
<b>Mol. weight [g/mol]:</b>	170.25

## Physical Properties

Property code	Value	Unit	Source
gf	-122.82	kJ/mol	Joback Method
hf	-382.59	kJ/mol	Joback Method
hfus	21.12	kJ/mol	Joback Method
hvap	46.58	kJ/mol	Joback Method
log10ws	-2.48		Crippen Method
logp	2.542		Crippen Method
mcvol	154.900	ml/mol	McGowan Method
pc	2329.27	kPa	Joback Method
rinpole	1180.00		NIST Webbook
ripole	1461.00		NIST Webbook
ripole	1461.00		NIST Webbook
tb	508.21	K	Joback Method
tc	691.70	K	Joback Method
tf	254.54	K	Joback Method
vc	0.594	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.97	J/molxK	508.21	Joback Method
cpg	365.14	J/molxK	538.79	Joback Method
cpg	378.69	J/molxK	569.37	Joback Method
cpg	391.64	J/molxK	599.96	Joback Method
cpg	404.00	J/molxK	630.54	Joback Method
cpg	415.79	J/molxK	661.12	Joback Method
cpg	427.02	J/molxK	691.70	Joback Method

dvisc	0.0043796	Paxs	254.54	Joback Method
dvisc	0.0017548	Paxs	296.82	Joback Method
dvisc	0.0008832	Paxs	339.10	Joback Method
dvisc	0.0005176	Paxs	381.38	Joback Method
dvisc	0.0003375	Paxs	423.65	Joback Method
dvisc	0.0002378	Paxs	465.93	Joback Method
dvisc	0.0001776	Paxs	508.21	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R409953&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R409953&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>
<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>

## 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>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

Latest version available from:

<https://www.chemeo.com/cid/49-466-1/Isobutyl-2-hexenoate.pdf>

Generated by Cheméo on 2024-04-24 16:41:12.376753495 +0000 UTC m=+16266121.297330820.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.