

# Cyclohexyl isovalerate

<b>Other names:</b>	Isovaleric acid cyclohexyl ester Butanoic acid, 3-methyl-, cyclohexyl ester
<b>Inchi:</b>	InChI=1S/C11H20O2/c1-9(2)8-11(12)13-10-6-4-3-5-7-10/h9-10H,3-8H2,1-2H3
<b>InchiKey:</b>	SQPOKBBCNZIWFI-UHFFFAOYSA-N
<b>Formula:</b>	C11H20O2
<b>SMILES:</b>	CC(C)CC(=O)OC1CCCCC1
<b>Mol. weight [g/mol]:</b>	184.28
<b>CAS:</b>	7774-44-9

## Physical Properties

Property code	Value	Unit	Source
gf	-170.17	kJ/mol	Joback Method
hf	-466.13	kJ/mol	Joback Method
hfus	15.34	kJ/mol	Joback Method
hvap	49.28	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	2.908		Crippen Method
mvol	162.430	ml/mol	McGowan Method
pc	2462.92	kPa	Joback Method
rinpol	1264.00		NIST Webbook
ripol	1527.00		NIST Webbook
tb	546.48	K	Joback Method
tc	753.14	K	Joback Method
tf	278.27	K	Joback Method
vc	0.603	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	404.33	J/molxK	546.48	Joback Method
cpg	489.53	J/molxK	718.70	Joback Method
cpg	474.40	J/molxK	684.25	Joback Method
cpg	458.33	J/molxK	649.81	Joback Method
cpg	441.31	J/molxK	615.37	Joback Method

cpg	423.31	J/molxK	580.92	Joback Method
cpg	503.73	J/molxK	753.14	Joback Method
dvisc	0.0002083	Paxs	546.48	Joback Method
dvisc	0.0002828	Paxs	501.78	Joback Method
dvisc	0.0004077	Paxs	457.08	Joback Method
dvisc	0.0006363	Paxs	412.38	Joback Method
dvisc	0.0011064	Paxs	367.67	Joback Method
dvisc	0.0022424	Paxs	322.97	Joback Method
dvisc	0.0057025	Paxs	278.27	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=C7774449&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7774449&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>mccvol:</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/82-120-7/Cyclohexyl-isovalerate.pdf>

Generated by Cheméo on 2024-04-25 07:21:07.878174661 +0000 UTC m=+16318916.798751973.

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