

# 4-(1-Propenyl)-phenyl-isobutyrate

<b>Inchi:</b>	InChI=1S/C13H16O2/c1-4-5-11-6-8-12(9-7-11)15-13(14)10(2)3/h4-10H,1-3H3/b5-4+
<b>InchiKey:</b>	LJEWVBGJLXRKQV-SNAWJCMRSA-N
<b>Formula:</b>	C13H16O2
<b>SMILES:</b>	CC=Cc1ccc(OC(=O)C(C)C)cc1
<b>Mol. weight [g/mol]:</b>	204.26

## Physical Properties

Property code	Value	Unit	Source
gf	5.22	kJ/mol	Joback Method
hf	-219.45	kJ/mol	Joback Method
hfus	22.54	kJ/mol	Joback Method
hvap	56.20	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.281		Crippen Method
mcvol	173.410	ml/mol	McGowan Method
pc	2393.53	kPa	Joback Method
ripol	2182.00		NIST Webbook
ripol	2182.00		NIST Webbook
ripol	2182.00		NIST Webbook
tb	608.51	K	Joback Method
tc	825.22	K	Joback Method
tf	327.29	K	Joback Method
vc	0.653	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	423.05	J/molxK	608.51	Joback Method
cpg	438.47	J/molxK	644.63	Joback Method
cpg	452.95	J/molxK	680.75	Joback Method
cpg	466.54	J/molxK	716.86	Joback Method
cpg	479.26	J/molxK	752.98	Joback Method
cpg	491.15	J/molxK	789.10	Joback Method
cpg	502.25	J/molxK	825.22	Joback Method

dvisc	0.0019222	Paxs	327.29	Joback Method
dvisc	0.0009292	Paxs	374.16	Joback Method
dvisc	0.0005281	Paxs	421.03	Joback Method
dvisc	0.0003361	Paxs	467.90	Joback Method
dvisc	0.0002323	Paxs	514.77	Joback Method
dvisc	0.0001707	Paxs	561.64	Joback Method
dvisc	0.0001316	Paxs	608.51	Joback Method

## Sources

<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=R418254&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R418254&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## 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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