

# o-Allyl oo-tert-butylperfumarate

<b>Inchi:</b>	InChI=1S/C11H16O5/c1-5-8-14-9(12)6-7-10(13)15-16-11(2,3)4/h5-7H,1,8H2,2-4H3/b7-6
<b>InchiKey:</b>	ZPVRKKIWIZMFSM-VOTSOKGWSA-N
<b>Formula:</b>	C11H16O5
<b>SMILES:</b>	<chem>C=CCOC(=O)C=CC(=O)OOC(C)(C)C</chem>
<b>Mol. weight [g/mol]:</b>	228.24
<b>CAS:</b>	52345-51-4

## Physical Properties

Property code	Value	Unit	Source
gf	-360.20	kJ/mol	Joback Method
hf	-658.29	kJ/mol	Joback Method
hfl	-673.20 ± 4.20	kJ/mol	NIST Webbook
hfus	22.52	kJ/mol	Joback Method
hvap	58.79	kJ/mol	Joback Method
log10ws	-2.05		Crippen Method
logp	1.545		Crippen Method
mcvol	178.000	ml/mol	McGowan Method
pc	2298.11	kPa	Joback Method
tb	623.69	K	Joback Method
tc	820.57	K	Joback Method
tf	375.86	K	Joback Method
vc	0.667	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	452.07	J/mol×K	623.69	Joback Method
cpg	465.27	J/mol×K	656.50	Joback Method
cpg	477.73	J/mol×K	689.32	Joback Method
cpg	489.49	J/mol×K	722.13	Joback Method
cpg	500.55	J/mol×K	754.94	Joback Method
cpg	510.93	J/mol×K	787.76	Joback Method
cpg	520.64	J/mol×K	820.57	Joback Method
dvisc	0.0012633	Paxs	375.86	Joback Method

dvisc	0.0006791	Paxs	417.17	Joback Method
dvisc	0.0004082	Paxs	458.47	Joback Method
dvisc	0.0002669	Paxs	499.78	Joback Method
dvisc	0.0001862	Paxs	541.08	Joback Method
dvisc	0.0001368	Paxs	582.38	Joback Method
dvisc	0.0001046	Paxs	623.69	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=C52345514&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C52345514&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>hfl:</b>	Liquid phase 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>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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