

# 8,9-Dehydrothymyl methacrylate

<b>Inchi:</b>	InChI=1S/C14H16O2/c1-9(2)12-7-6-11(5)8-13(12)16-14(15)10(3)4/h6-8H,1,3H2,2,4-5H3
<b>InchiKey:</b>	GYZZSDPJKDCFRU-UHFFFAOYSA-N
<b>Formula:</b>	C14H16O2
<b>SMILES:</b>	<chem>C=C(C)C(=O)Oc1cc(C)ccc1C(=C)C</chem>
<b>Mol. weight [g/mol]:</b>	216.28

## Physical Properties

Property code	Value	Unit	Source
gf	84.81	kJ/mol	Joback Method
hf	-132.22	kJ/mol	Joback Method
hfus	22.89	kJ/mol	Joback Method
hvap	58.33	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	3.510		Crippen Method
mvol	183.200	ml/mol	McGowan Method
pc	2222.89	kPa	Joback Method
rinpol	1479.00		NIST Webbook
ripol	2116.00		NIST Webbook
tb	625.77	K	Joback Method
tc	842.36	K	Joback Method
tf	339.72	K	Joback Method
vc	0.700	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	449.29	J/molxK	625.77	Joback Method
cpg	464.47	J/molxK	661.87	Joback Method
cpg	478.75	J/molxK	697.97	Joback Method
cpg	492.16	J/molxK	734.07	Joback Method
cpg	504.73	J/molxK	770.16	Joback Method
cpg	516.48	J/molxK	806.26	Joback Method
cpg	527.45	J/molxK	842.36	Joback Method

# Sources

<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=R518200&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R518200&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ri<sub>npol</sub>:</b>	Non-polar retention indices
<b>ri<sub>pol</sub>:</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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