

# 8,9-Dehydrothymol isobutyrate

<b>Inchi:</b>	InChI=1S/C14H18O2/c1-9(2)12-7-6-11(5)13(8-12)16-14(15)10(3)4/h6-8,10H,1H2,2-5H3
<b>InchiKey:</b>	KICUJBIVPALHON-UHFFFAOYSA-N
<b>Formula:</b>	C14H18O2
<b>SMILES:</b>	<chem>C=C(C)c1ccc(C)c(OC(=O)C(C)C)c1</chem>
<b>Mol. weight [g/mol]:</b>	218.29

## Physical Properties

Property code	Value	Unit	Source
gf	3.08	kJ/mol	Joback Method
hf	-253.14	kJ/mol	Joback Method
hfus	21.95	kJ/mol	Joback Method
hvap	58.54	kJ/mol	Joback Method
log10ws	-4.10		Crippen Method
logp	3.590		Crippen Method
mcvol	187.500	ml/mol	McGowan Method
pc	2143.35	kPa	Joback Method
rinpol	1456.00		NIST Webbook
rinpol	1445.00		NIST Webbook
rinpol	1456.00		NIST Webbook
rinpol	1445.00		NIST Webbook
tb	628.77	K	Joback Method
tc	841.84	K	Joback Method
tf	340.44	K	Joback Method
vc	0.712	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.75	J/molxK	628.77	Joback Method
cpg	487.67	J/molxK	664.28	Joback Method
cpg	502.68	J/molxK	699.79	Joback Method
cpg	516.80	J/molxK	735.31	Joback Method
cpg	530.05	J/molxK	770.82	Joback Method
cpg	542.46	J/molxK	806.33	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R204372&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R204372&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>
<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>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>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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