

# 8-Methylhydrocoumarin

<b>Inchi:</b>	InChI=1S/C10H10O2/c1-7-3-2-4-8-5-6-9(11)12-10(7)8/h2-4H,5-6H2,1H3
<b>InchiKey:</b>	WQHAWQJLMGDBOS-UHFFFAOYSA-N
<b>Formula:</b>	C10H10O2
<b>SMILES:</b>	<chem>Cc1cccc2c1OC(=O)CC2</chem>
<b>Mol. weight [g/mol]:</b>	162.19

## Physical Properties

Property code	Value	Unit	Source
gf	-25.88	kJ/mol	Joback Method
hf	-218.86	kJ/mol	Joback Method
hfus	17.37	kJ/mol	Joback Method
hvap	50.61	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	1.847		Crippen Method
mvol	124.580	ml/mol	McGowan Method
pc	3615.89	kPa	Joback Method
ripol	2425.00		NIST Webbook
ripol	2425.00		NIST Webbook
tb	575.29	K	Joback Method
tc	822.59	K	Joback Method
tf	367.37	K	Joback Method
vc	0.466	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.49	J/mol×K	575.29	Joback Method
cpg	311.02	J/mol×K	616.51	Joback Method
cpg	324.61	J/mol×K	657.72	Joback Method
cpg	337.27	J/mol×K	698.94	Joback Method
cpg	349.04	J/mol×K	740.16	Joback Method
cpg	359.93	J/mol×K	781.37	Joback Method
cpg	369.97	J/mol×K	822.59	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R416203&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R416203&amp;Units=SI</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>hvp:</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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