

# Hydroxy-copalic acid methyl ester

<b>Inchi:</b>	InChI=1S/C21H34O3/c1-14(13-19(23)24-6)7-9-16-15(2)8-10-17-20(3,4)18(22)11-12-21(1)
<b>InchiKey:</b>	ZPIMNSSFJAWUGM-GRKUEHCHSA-N
<b>Formula:</b>	C21H34O3
<b>SMILES:</b>	<chem>C=C1CCC2C(C)(C)C(O)CCC2(C)C1CCC(C)=CC(=O)OC</chem>
<b>Mol. weight [g/mol]:</b>	334.49

## Physical Properties

Property code	Value	Unit	Source
gf	-81.06	kJ/mol	Joback Method
hf	-591.71	kJ/mol	Joback Method
hfus	33.24	kJ/mol	Joback Method
hvap	85.66	kJ/mol	Joback Method
log10ws	-5.38		Crippen Method
logp	4.656		Crippen Method
mvol	289.740	ml/mol	McGowan Method
pc	1403.79	kPa	Joback Method
rinpol	2570.00		NIST Webbook
rinpol	2570.00		NIST Webbook
tb	868.58	K	Joback Method
tc	1079.40	K	Joback Method
tf	510.93	K	Joback Method
vc	1.095	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	982.14	J/mol×K	868.58	Joback Method
cpg	1004.81	J/mol×K	903.72	Joback Method
cpg	1027.45	J/mol×K	938.85	Joback Method
cpg	1050.27	J/mol×K	973.99	Joback Method
cpg	1073.47	J/mol×K	1009.13	Joback Method
cpg	1097.27	J/mol×K	1044.27	Joback Method
cpg	1121.87	J/mol×K	1079.40	Joback Method

# Sources

<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=R519401&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R519401&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>rinp:</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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