

# Homodihydroisovaltrate

<b>Inchi:</b>	InChI=1S/C23H34O8/c1-6-14(4)8-20(26)31-22-21-17(9-18(30-15(5)24)23(21)12-29-23)1
<b>InchiKey:</b>	NQYKVDKWBKOHDR-UHFFFAOYSA-N
<b>Formula:</b>	C23H34O8
<b>SMILES:</b>	CCC(C)CC(=O)OC1OC=C(COC(=O)CC(C)C)C2CC(OC(C)=O)C3(CO3)C12
<b>Mol. weight [g/mol]:</b>	438.51
<b>CAS:</b>	18361-41-6

## Physical Properties

Property code	Value	Unit	Source
gf	-578.63	kJ/mol	Joback Method
hf	-1300.06	kJ/mol	Joback Method
hfus	59.48	kJ/mol	Joback Method
hvap	101.77	kJ/mol	Joback Method
log10ws	-4.11		Crippen Method
logp	3.132		Crippen Method
mcvol	332.110	ml/mol	McGowan Method
pc	1231.15	kPa	Joback Method
rinpol	2648.40		NIST Webbook
rinpol	2648.40		NIST Webbook
tb	1031.33	K	Joback Method
tc	1263.54	K	Joback Method
tf	664.07	K	Joback Method
vc	1.262	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1215.02	J/mol×K	1031.33	Joback Method
cpg	1236.07	J/mol×K	1070.03	Joback Method
cpg	1256.87	J/mol×K	1108.73	Joback Method
cpg	1277.59	J/mol×K	1147.43	Joback Method
cpg	1298.42	J/mol×K	1186.13	Joback Method
cpg	1319.52	J/mol×K	1224.83	Joback Method
cpg	1341.09	J/mol×K	1263.54	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=C18361416&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18361416&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>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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