

# Exo-hydroxy-endo-endo-tetracyclo[6.2.1.13,602,7]

<b>Other names:</b>	Exo-hydroxy-endo-endo-tetracyclo[6.2.1.1
<b>Inchi:</b>	InChI=1S/C12H18O/c13-10-5-8-4-9(10)12-7-2-1-6(3-7)11(8)12/h6-13H,1-5H2/t6-,7+,8-,9-
<b>InchiKey:</b>	LXGJTVCALLQHGZ-MIEYUYBLSA-N
<b>Formula:</b>	C12H18O
<b>SMILES:</b>	OC1CC2CC1C1C3CCC(C3)C21
<b>Mol. weight [g/mol]:</b>	178.27
<b>CAS:</b>	7273-98-5

## Physical Properties

Property code	Value	Unit	Source
chs	-7030.40 ± 3.60	kJ/mol	NIST Webbook
gf	133.21	kJ/mol	Joback Method
hf	-185.20 ± 4.40	kJ/mol	NIST Webbook
hfs	-264.20 ± 3.60	kJ/mol	NIST Webbook
hfus	26.68	kJ/mol	Joback Method
hsub	79.00 ± 2.50	kJ/mol	NIST Webbook
hsub	79.00	kJ/mol	NIST Webbook
hsub	79.00 ± 2.50	kJ/mol	NIST Webbook
hvap	57.71	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	2.049		Crippen Method
mvol	142.370	ml/mol	McGowan Method
pc	2899.85	kPa	Joback Method
tb	579.09	K	Joback Method
tc	780.15	K	Joback Method
tf	344.86	K	Joback Method
vc	0.551	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	427.07	J/mol×K	579.09	Joback Method
cpg	445.44	J/mol×K	612.60	Joback Method
cpg	462.60	J/mol×K	646.11	Joback Method

cpg	478.65	J/molxK	679.62	Joback Method
cpg	493.69	J/molxK	713.13	Joback Method
cpg	507.83	J/molxK	746.64	Joback Method
cpg	521.17	J/molxK	780.15	Joback Method
dvisc	0.0050743	Paxs	344.86	Joback Method
dvisc	0.0045720	Paxs	383.90	Joback Method
dvisc	0.0041994	Paxs	422.94	Joback Method
dvisc	0.0039131	Paxs	461.98	Joback Method
dvisc	0.0036866	Paxs	501.01	Joback Method
dvisc	0.0035032	Paxs	540.05	Joback Method
dvisc	0.0033520	Paxs	579.09	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C7273985&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7273985&amp;Units=SI</a>
<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.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>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsub:</b>	Enthalpy of sublimation 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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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