

# 9-oxo-Tetrahydroedulan I

<b>Inchi:</b>	InChI=1S/C13H22O2/c1-9-8-10(14)11-12(2,3)6-5-7-13(11,4)15-9/h9,11H,5-8H2,1-4H3/t9
<b>InchiKey:</b>	QFHNUZLPOUYWJG-XTLKWQJWSA-N
<b>Formula:</b>	C13H22O2
<b>SMILES:</b>	CC1CC(=O)C2C(C)(C)CCCC2(C)O1
<b>Mol. weight [g/mol]:</b>	210.31

## Physical Properties

Property code	Value	Unit	Source
gf	-103.43	kJ/mol	Joback Method
hf	-470.59	kJ/mol	Joback Method
hfus	14.33	kJ/mol	Joback Method
hvap	50.88	kJ/mol	Joback Method
log10ws	-3.16		Crippen Method
logp	2.949		Crippen Method
mcvol	179.750	ml/mol	McGowan Method
pc	2365.67	kPa	Joback Method
rinsol	1516.20		NIST Webbook
tb	613.31	K	Joback Method
tc	854.77	K	Joback Method
tf	392.18	K	Joback Method
vc	0.667	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	510.45	J/mol×K	613.31	Joback Method
cpg	533.06	J/mol×K	653.55	Joback Method
cpg	554.45	J/mol×K	693.80	Joback Method
cpg	574.86	J/mol×K	734.04	Joback Method
cpg	594.54	J/mol×K	774.28	Joback Method
cpg	613.74	J/mol×K	814.52	Joback Method
cpg	632.72	J/mol×K	854.77	Joback Method

# Sources

<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=R416347&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R416347&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>

# 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>rinpolar:</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

Latest version available from:

<https://www.chemeo.com/cid/22-924-1/9-oxo-Tetrahydroedulan-I.pdf>

Generated by Cheméo on 2024-04-27 20:20:29.85709636 +0000 UTC m=+16538478.777673681.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.