

# Dihydroartemisinin, 3-desoxy-

<b>Other names:</b>	Deoxydihydroqinghaosu
<b>Inchi:</b>	InChI=1S/C15H24O4/c1-8-4-5-11-9(2)12(16)17-13-15(11)10(8)6-7-14(3,18-13)19-15/h8-
<b>InchiKey:</b>	JQGOBHOUYKYFPD-UHFFFAOYSA-N
<b>Formula:</b>	C15H24O4
<b>SMILES:</b>	CC1CCC2C(C)C(O)OC3OC4(C)CCC1C32O4
<b>Mol. weight [g/mol]:</b>	268.35
<b>CAS:</b>	72807-92-2

## Physical Properties

Property code	Value	Unit	Source
gf	-154.88	kJ/mol	Joback Method
hf	-679.32	kJ/mol	Joback Method
hfus	40.56	kJ/mol	Joback Method
hvap	75.82	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	2.255		Crippen Method
mcvol	202.250	ml/mol	McGowan Method
pc	2402.92	kPa	Joback Method
tb	737.20	K	Joback Method
tc	956.73	K	Joback Method
tf	491.38	K	Joback Method
vc	0.753	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	693.11	J/molxK	737.20	Joback Method
cpg	713.02	J/molxK	773.79	Joback Method
cpg	732.44	J/molxK	810.38	Joback Method
cpg	751.66	J/molxK	846.97	Joback Method
cpg	770.95	J/molxK	883.56	Joback Method
cpg	790.60	J/molxK	920.14	Joback Method
cpg	810.86	J/molxK	956.73	Joback Method

# Sources

<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=C72807922&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C72807922&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>

# 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>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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