

# cis-10,11-epoxyhenicosane

<b>Inchi:</b>	InChI=1S/C21H42O/c1-3-5-7-9-11-13-15-17-19-21-20(22-21)18-16-14-12-10-8-6-4-2/h20
<b>InchiKey:</b>	KHCQOAYMJGDULQ-RTWAWAEBSA-N
<b>Formula:</b>	C21H42O
<b>SMILES:</b>	CCCCCCCCC1OC1CCCCCCCC
<b>Mol. weight [g/mol]:</b>	310.56

## Physical Properties

Property code	Value	Unit	Source
gf	92.86	kJ/mol	Joback Method
hf	-556.31	kJ/mol	Joback Method
hfus	57.33	kJ/mol	Joback Method
hvap	66.45	kJ/mol	Joback Method
log10ws	-7.82		Crippen Method
logp	7.425		Crippen Method
mcvol	301.760	ml/mol	McGowan Method
pc	1010.37	kPa	Joback Method
ripol	2484.00		NIST Webbook
tb	708.90	K	Joback Method
tc	878.39	K	Joback Method
tf	366.70	K	Joback Method
vc	1.188	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	929.15	J/molxK	708.90	Joback Method
cpg	950.53	J/molxK	737.15	Joback Method
cpg	970.94	J/molxK	765.40	Joback Method
cpg	990.43	J/molxK	793.64	Joback Method
cpg	1009.04	J/molxK	821.89	Joback Method
cpg	1026.81	J/molxK	850.14	Joback Method
cpg	1043.77	J/molxK	878.39	Joback Method
dvisc	0.0025794	Paxs	366.70	Joback Method
dvisc	0.0013564	Paxs	423.73	Joback Method

dvisc	0.0008307	Paxs	480.77	Joback Method
dvisc	0.0005645	Paxs	537.80	Joback Method
dvisc	0.0004132	Paxs	594.83	Joback Method
dvisc	0.0003193	Paxs	651.87	Joback Method
dvisc	0.0002573	Paxs	708.90	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=R503010&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R503010&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>

## Legend

<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>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>ripol:</b>	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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