

# Cyperene epoxide

<b>Inchi:</b>	InChI=1S/C15H24O/c1-10-5-6-11-9-15-13(4,16-15)7-8-14(10,15)12(11,2)3/h10-11H,5-9H
<b>InchiKey:</b>	ZIEAVLBEUVSHIU-UHFFFAOYSA-N
<b>Formula:</b>	C15H24O
<b>SMILES:</b>	CC1CCC2CC34OC3(C)CCC14C2(C)C
<b>Mol. weight [g/mol]:</b>	220.35
<b>CAS:</b>	25570-94-9

## Physical Properties

Property code	Value	Unit	Source
gf	194.92	kJ/mol	Joback Method
hf	-173.45	kJ/mol	Joback Method
hfus	12.07	kJ/mol	Joback Method
hvap	47.92	kJ/mol	Joback Method
log10ws	-4.02		Crippen Method
logp	3.770		Crippen Method
mcvol	184.640	ml/mol	McGowan Method
pc	2419.50	kPa	Joback Method
rinpol	1541.80		NIST Webbook
rinpol	1532.00		NIST Webbook
rinpol	1541.80		NIST Webbook
tb	588.13	K	Joback Method
tc	827.05	K	Joback Method
tf	444.26	K	Joback Method
vc	0.715	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.28	J/molxK	588.13	Joback Method
cpg	560.07	J/molxK	627.95	Joback Method
cpg	580.30	J/molxK	667.77	Joback Method
cpg	599.60	J/molxK	707.59	Joback Method
cpg	618.63	J/molxK	747.41	Joback Method
cpg	638.01	J/molxK	787.23	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=C25570949&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C25570949&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>

## 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>rinpol:</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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