

# Ascaridole epoxide

<b>Inchi:</b>	InChI=1S/C10H16O3/c1-6(2)10-5-4-9(3,12-13-10)7-8(10)11-7/h6-8H,4-5H2,1-3H3
<b>InchiKey:</b>	OBKUFMIGIUQZRU-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O3
<b>SMILES:</b>	CC(C)C12CCC(C)(OO1)C1OC12
<b>Mol. weight [g/mol]:</b>	184.23
<b>CAS:</b>	135760-25-7

## Physical Properties

Property code	Value	Unit	Source
gf	-63.92	kJ/mol	Joback Method
hf	-422.47	kJ/mol	Joback Method
hfus	24.95	kJ/mol	Joback Method
hvap	48.12	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	1.663		Crippen Method
mvol	136.790	ml/mol	McGowan Method
pc	3265.31	kPa	Joback Method
rinpol	1215.00		NIST Webbook
tb	524.64	K	Joback Method
tc	749.36	K	Joback Method
tf	364.55	K	Joback Method
vc	0.518	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.38	J/molxK	524.64	Joback Method
cpg	389.65	J/molxK	562.09	Joback Method
cpg	405.36	J/molxK	599.55	Joback Method
cpg	419.81	J/molxK	637.00	Joback Method
cpg	433.30	J/molxK	674.45	Joback Method
cpg	446.12	J/molxK	711.91	Joback Method
cpg	458.59	J/molxK	749.36	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C135760257&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C135760257&amp;Units=SI</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>hvp:</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>rinp:</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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