

# cis-Acenaphthen-1,2-diol

Inchi:	InChI=1S/C12H10O2/c13-11-8-5-1-3-7-4-2-6-9(10(7)8)12(11)14/h1-6,11-14H/t11-,12+
InchiKey:	ARGFAPRYULRPAN-TXEJJXNPSA-N
Formula:	C12H10O2
SMILES:	OC1c2cccc3cccc(c23)C1O
Mol. weight [g/mol]:	186.21

## Physical Properties

Property code	Value	Unit	Source
gf	41.46	kJ/mol	Joback Method
hf	-132.19	kJ/mol	Joback Method
hfus	26.60	kJ/mol	Joback Method
hvap	80.34	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	1.920		Crippen Method
mcvol	137.600	ml/mol	McGowan Method
pc	4067.32	kPa	Joback Method
rinsol	1790.00		NIST Webbook
tb	711.74	K	Joback Method
tc	917.91	K	Joback Method
tf	448.02	K	Joback Method
vc	0.523	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	378.85	J/molxK	711.74	Joback Method
cpg	420.93	J/molxK	883.55	Joback Method
cpg	413.36	J/molxK	849.19	Joback Method
cpg	405.44	J/molxK	814.82	Joback Method
cpg	397.10	J/molxK	780.46	Joback Method
cpg	388.26	J/molxK	746.10	Joback Method
cpg	428.22	J/molxK	917.91	Joback Method
dvisc	0.0001028	Paxs	711.74	Joback Method
dvisc	0.0001425	Paxs	667.79	Joback Method

dvisc	0.0002070	Paxs	623.83	Joback Method
dvisc	0.0003180	Paxs	579.88	Joback Method
dvisc	0.0005244	Paxs	535.93	Joback Method
dvisc	0.0009455	Paxs	491.97	Joback Method
dvisc	0.0019138	Paxs	448.02	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=R109252&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R109252&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>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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<https://www.chemeo.com/cid/37-571-7/cis-Acenaphthen-1-2-diol.pdf>

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