

# 5,9-Cyclododecadien-1,2-diol

<b>Inchi:</b>	InChI=1S/C12H20O2/c13-11-9-7-5-3-1-2-4-6-8-10-12(11)14/h3-6,11-14H,1-2,7-10H2/b5-
<b>InchiKey:</b>	BHYILZSOXKSYCF-GGWOSOGESA-N
<b>Formula:</b>	C12H20O2
<b>SMILES:</b>	OC1CCC=CCCC=CCCC1O
<b>Mol. weight [g/mol]:</b>	196.29
<b>CAS:</b>	15786-26-2

## Physical Properties

Property code	Value	Unit	Source
gf	-219.42	kJ/mol	Joback Method
hf	-482.89	kJ/mol	Joback Method
hfus	17.76	kJ/mol	Joback Method
hvap	77.40	kJ/mol	Joback Method
log10ws	-3.20		Crippen Method
logp	2.175		Crippen Method
mcvol	172.220	ml/mol	McGowan Method
pc	3114.04	kPa	Joback Method
tb	697.14	K	Joback Method
tc	905.76	K	Joback Method
tf	330.18	K	Joback Method
vc	0.602	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	507.91	J/molxK	697.14	Joback Method
cpg	581.15	J/molxK	870.99	Joback Method
cpg	568.94	J/molxK	836.22	Joback Method
cpg	555.50	J/molxK	801.45	Joback Method
cpg	540.84	J/molxK	766.68	Joback Method
cpg	524.97	J/molxK	731.91	Joback Method
cpg	592.12	J/molxK	905.76	Joback Method
dvisc	0.0000029	Paxs	697.14	Joback Method
dvisc	0.0000065	Paxs	635.98	Joback Method

dvisc	0.0000173	Paxs	574.82	Joback Method
dvisc	0.0000582	Paxs	513.66	Joback Method
dvisc	0.0002709	Paxs	452.50	Joback Method
dvisc	0.0020396	Paxs	391.34	Joback Method
dvisc	0.0324360	Paxs	330.18	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C15786262&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15786262&amp;Units=SI</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>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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