

# Dibenzo[a,e]cyclooctene, 5,6,11,12-tetrahydro-

<b>Other names:</b>	Dibenzocycloocta-1,5-diene s-Dibenzocyclooctadiene Cyclo-di-o-xylylene 1,2:5,6-Dibenzocyclooctane 5,6,11,12-Tetrahydrodibenzo[a,e]cyclooctene
<b>Inchi:</b>	InChI=1S/C16H16/c1-2-6-14-11-12-16-8-4-3-7-15(16)10-9-13(14)5-1/h1-8H,9-12H2
<b>InchiKey:</b>	PCQPMHABIFETBJ-UHFFFAOYSA-N
<b>Formula:</b>	C16H16
<b>SMILES:</b>	<chem>c1ccc2c(c1)CCc1cccc1CC2</chem>
<b>Mol. weight [g/mol]:</b>	208.30
<b>CAS:</b>	1460-59-9

## Physical Properties

Property code	Value	Unit	Source
gf	345.76	kJ/mol	Joback Method
hf	163.53	kJ/mol	Joback Method
hfus	19.46	kJ/mol	Joback Method
hvap	57.48	kJ/mol	Joback Method
log10ws	-4.55		Crippen Method
logp	3.570		Crippen Method
mcvol	177.920	ml/mol	McGowan Method
pc	2673.54	kPa	Joback Method
tb	644.48	K	Joback Method
tc	901.88	K	Joback Method
tf	366.62	K	Joback Method
vc	0.665	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	456.99	J/molxK	644.48	Joback Method
cpg	476.19	J/molxK	687.38	Joback Method
cpg	493.79	J/molxK	730.28	Joback Method
cpg	509.95	J/molxK	773.18	Joback Method

cpg	524.78	J/molxK	816.08	Joback Method
cpg	538.42	J/molxK	858.98	Joback Method
cpg	551.01	J/molxK	901.88	Joback Method
dvisc	0.0018114	Paxs	366.62	Joback Method
dvisc	0.0010682	Paxs	412.93	Joback Method
dvisc	0.0007007	Paxs	459.24	Joback Method
dvisc	0.0004965	Paxs	505.55	Joback Method
dvisc	0.0003728	Paxs	551.86	Joback Method
dvisc	0.0002926	Paxs	598.17	Joback Method
dvisc	0.0002378	Paxs	644.48	Joback Method

## Sources

<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=C1460599&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1460599&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>
<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>

## 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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