

# 5,16:8,13-Diethenodibenzo[a,g]cyclododecane, 6,7,14,15-tetrahydro

Other names: anti-(5,16:8,13)-Diethenodibenzo[a,g] cyclododecene 6,7,14,15-tetrahydro-  
[2,2]-(1,4)-Naphthalenophane

**Inchi:** InChI=1S/C24H24/c1-2-6-22-18-10-9-17(21(22)5-1)13-14-19-11-12-20(16-15-18)24-8-4-

**InchiKey:** YWFIZNFETZCKEP-FIWHBWSRSA-N

**Formula:** C24H20

**SMILES:** c1ccc2c(c1)C1CCc3ccc(c4ccccc34)CCC2CC1

**Mol. weight [g/mol]:** 308.42

**CAS:** 17341-02-5

## Physical Properties

Property code	Value	Unit	Source
gf	551.08	kJ/mol	Joback Method
hf	224.31	kJ/mol	Joback Method
hfus	33.92	kJ/mol	Joback Method
hvap	77.37	kJ/mol	Joback Method
ie	7.30	eV	NIST Webbook
ie	7.50	eV	NIST Webbook
log10ws	-7.85		Crippen Method
logp	6.380		Crippen Method
mcvol	260.320	ml/mol	McGowan Method
pc	1810.77	kPa	Joback Method
tb	857.82	K	Joback Method
tc	1123.14	K	Joback Method
tf	512.18	K	Joback Method
vc	0.984	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	823.37	J/molxK	857.82	Joback Method
cpg	843.52	J/molxK	902.04	Joback Method
cpg	862.29	J/molxK	946.26	Joback Method
cpg	879.92	J/molxK	990.48	Joback Method
cpg	896.65	J/molxK	1034.70	Joback Method

cpg	912.74	J/molxK	1078.92	Joback Method
cpg	928.41	J/molxK	1123.14	Joback Method
dvisc	0.0020192	Paxs	512.18	Joback Method
dvisc	0.0014780	Paxs	569.79	Joback Method
dvisc	0.0011456	Paxs	627.39	Joback Method
dvisc	0.0009268	Paxs	685.00	Joback Method
dvisc	0.0007749	Paxs	742.61	Joback Method
dvisc	0.0006648	Paxs	800.21	Joback Method
dvisc	0.0005822	Paxs	857.82	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=C17341025&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C17341025&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>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</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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