

# Octahydro-1,3,6-ethanylylidenecyclobuta [cd] indene-2,8(1H)-dione

Inchi:	InChI=1S/C12H12O2/c13-11-7-3-1-2-4-6-5(3)9(11)10(6)12(14)8(4)7/h3-10H,1-2H2
InchiKey:	QKFUKYWULIYZFN-UHFFFAOYSA-N
Formula:	C12H12O2
SMILES:	O=C1C2C3CCC4C2C(=O)C2C1C3C42
Mol. weight [g/mol]:	188.22
CAS:	712-25-4

## Physical Properties

Property code	Value	Unit	Source
chs	-6197.76	kJ/mol	NIST Webbook
gf	121.90	kJ/mol	Joback Method
hf	-244.95	kJ/mol	Joback Method
hfs	-239.50	kJ/mol	NIST Webbook
hfus	26.04	kJ/mol	Joback Method
hvap	48.92	kJ/mol	Joback Method
log10ws	-0.95		Crippen Method
logp	0.902		Crippen Method
mcvol	128.780	ml/mol	McGowan Method
pc	3005.73	kPa	Joback Method
tb	616.48	K	Joback Method
tc	853.99	K	Joback Method
tf	448.98	K	Joback Method
vc	0.527	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	411.96	J/molxK	616.48	Joback Method
cpg	430.15	J/molxK	656.07	Joback Method
cpg	447.05	J/molxK	695.65	Joback Method
cpg	462.80	J/molxK	735.24	Joback Method
cpg	477.56	J/molxK	774.82	Joback Method
cpg	491.47	J/molxK	814.41	Joback Method
cpg	504.70	J/molxK	853.99	Joback Method

# Sources

<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>
<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=C712254&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C712254&amp;Units=SI</a>

# Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>hfs:</b>	Solid phase 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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