

# 6H-Benzo[cd]pyren-6-one

<b>Inchi:</b>	InChI=1S/C19H10O/c20-19-14-5-1-3-11-7-9-13-10-8-12-4-2-6-15(19)17(12)18(13)16(11)
<b>InchiKey:</b>	CLIKSBRDCNSYNO-UHFFFAOYSA-N
<b>Formula:</b>	C19H10O
<b>SMILES:</b>	O=C1c2cccc3ccc4ccc5cccc1c5c4c23
<b>Mol. weight [g/mol]:</b>	254.28

## Physical Properties

Property code	Value	Unit	Source
gf	473.01	kJ/mol	Joback Method
hf	296.13	kJ/mol	Joback Method
hfus	29.28	kJ/mol	Joback Method
hvap	71.86	kJ/mol	Joback Method
log10ws	-7.09		Crippen Method
logp	4.691		Crippen Method
mcvol	187.140	ml/mol	McGowan Method
pc	2805.41	kPa	Joback Method
rinpol	459.10		NIST Webbook
rinpol	453.90		NIST Webbook
rinpol	454.70		NIST Webbook
tb	808.35	K	Joback Method
tc	1077.23	K	Joback Method
tf	575.93	K	Joback Method
vc	0.739	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	512.78	J/mol×K	808.35	Joback Method
cpg	525.61	J/mol×K	853.16	Joback Method
cpg	537.89	J/mol×K	897.98	Joback Method
cpg	549.89	J/mol×K	942.79	Joback Method
cpg	561.84	J/mol×K	987.60	Joback Method
cpg	573.99	J/mol×K	1032.42	Joback Method
cpg	586.60	J/mol×K	1077.23	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R312557&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R312557&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<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>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvpap:</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>rinppl:</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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