

# Cyclopenta(cd)perylene

<b>Inchi:</b>	InChI=1S/C22H12/c1-3-13-4-2-6-17-19-12-10-15-8-7-14-9-11-18(22(19)20(14)15)16(5-1)
<b>InchiKey:</b>	IVZZWHVVAJTPOG-UHFFFAOYSA-N
<b>Formula:</b>	C22H12
<b>SMILES:</b>	C1=Cc2ccc3c4cccc5cccc(c6ccc1c2c63)c54
<b>Mol. weight [g/mol]:</b>	276.33
<b>CAS:</b>	189-01-5

## Physical Properties

Property code	Value	Unit	Source
gf	729.98	kJ/mol	Joback Method
hf	557.67	kJ/mol	Joback Method
hfus	36.27	kJ/mol	Joback Method
hvap	76.42	kJ/mol	Joback Method
log10ws	-8.96		Crippen Method
logp	6.221		Crippen Method
mcvol	208.380	ml/mol	McGowan Method
pc	2485.07	kPa	Joback Method
rinpol	3232.00		NIST Webbook
rinpol	484.70		NIST Webbook
tb	828.86	K	Joback Method
tc	1092.51	K	Joback Method
tf	590.26	K	Joback Method
vc	0.830	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	573.06	J/molxK	828.86	Joback Method
cpg	586.21	J/molxK	872.80	Joback Method
cpg	599.31	J/molxK	916.74	Joback Method
cpg	612.69	J/molxK	960.68	Joback Method
cpg	626.73	J/molxK	1004.62	Joback Method
cpg	641.76	J/molxK	1048.57	Joback Method
cpg	658.14	J/molxK	1092.51	Joback Method

dvisc	0.0083814	Paxs	590.26	Joback Method
dvisc	0.0083273	Paxs	630.03	Joback Method
dvisc	0.0082799	Paxs	669.79	Joback Method
dvisc	0.0082380	Paxs	709.56	Joback Method
dvisc	0.0082008	Paxs	749.33	Joback Method
dvisc	0.0081674	Paxs	789.09	Joback Method
dvisc	0.0081374	Paxs	828.86	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=C189015&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C189015&amp;Units=SI</a>
<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>

## 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>rinpol:</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

Latest version available from:

<https://www.chemeo.com/cid/67-353-6/Cyclopenta-cd-perylene.pdf>

Generated by Cheméo on 2024-04-18 04:04:17.662043884 +0000 UTC m=+15702306.582621196.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.