

# p-Dicyclohexylbenzene

<b>Other names:</b>	1,4-Dicyclohexylbenzene Benzene, 1,4-dicyclohexyl- Benzene, p-dicyclohexyl-
<b>Inchi:</b>	InChI=1S/C18H26/c1-3-7-15(8-4-1)17-11-13-18(14-12-17)16-9-5-2-6-10-16/h11-16H,1-10H
<b>InchiKey:</b>	QQFSIGWYINAJOB-UHFFFAOYSA-N
<b>Formula:</b>	C18H26
<b>SMILES:</b>	<chem>c1cc(C2CCCCC2)ccc1C1CCCCC1</chem>
<b>Mol. weight [g/mol]:</b>	242.40
<b>CAS:</b>	1087-02-1

## Physical Properties

Property code	Value	Unit	Source
gf	252.36	kJ/mol	Joback Method
hf	-81.15	kJ/mol	Joback Method
hfus	19.70	kJ/mol	Joback Method
hvap	59.46	kJ/mol	Joback Method
log10ws	-6.14		Crippen Method
logp	5.782		Crippen Method
mcvol	219.000	ml/mol	McGowan Method
pc	2029.06	kPa	Joback Method
rinpol	2050.00		NIST Webbook
rinpol	2050.00		NIST Webbook
tb	682.00	K	Joback Method
tc	935.82	K	Joback Method
tf	370.90 ± 6.00	K	NIST Webbook
vc	0.801	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	644.29	J/mol×K	682.00	Joback Method
cpg	670.91	J/mol×K	724.30	Joback Method
cpg	695.39	J/mol×K	766.61	Joback Method
cpg	717.83	J/mol×K	808.91	Joback Method

cpg	738.33	J/molxK	851.21	Joback Method
cpg	757.00	J/molxK	893.51	Joback Method
cpg	773.94	J/molxK	935.82	Joback Method
dvisc	0.0032900	Paxs	346.32	Joback Method
dvisc	0.0013403	Paxs	402.27	Joback Method
dvisc	0.0006799	Paxs	458.21	Joback Method
dvisc	0.0003998	Paxs	514.16	Joback Method
dvisc	0.0002609	Paxs	570.11	Joback Method
dvisc	0.0001838	Paxs	626.05	Joback Method
dvisc	0.0001371	Paxs	682.00	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1087021&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1087021&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>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

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