

# 6,6-Paracyclophane

<b>Inchi:</b>	InChI=1S/C24H32/c1-2-6-10-22-17-19-24(20-18-22)12-8-4-3-7-11-23-15-13-21(9-5-1)14
<b>InchiKey:</b>	KZCIQXIXTWAXSA-UHFFFAOYSA-N
<b>Formula:</b>	C24H32
<b>SMILES:</b>	c1cc2ccc1CCCCCcc1ccc(cc1)CCCCC2
<b>Mol. weight [g/mol]:</b>	320.51
<b>CAS:</b>	4384-23-0

## Physical Properties

Property code	Value	Unit	Source
chs	-13825.00 ± 9.60	kJ/mol	NIST Webbook
gf	316.32	kJ/mol	Joback Method
hf	-77.00 ± 12.00	kJ/mol	NIST Webbook
hfs	-192.00 ± 9.60	kJ/mol	NIST Webbook
hfus	23.38	kJ/mol	Joback Method
hsub	115.00	kJ/mol	NIST Webbook
hsub	115.00 ± 2.00	kJ/mol	NIST Webbook
hsub	115.10 ± 2.10	kJ/mol	NIST Webbook
hvap	76.66	kJ/mol	Joback Method
log10ws	-7.90		Crippen Method
logp	6.691		Crippen Method
mvol	290.640	ml/mol	McGowan Method
pc	1597.44	kPa	Joback Method
tb	861.68	K	Joback Method
tc	1134.76	K	Joback Method
tf	428.62	K	Joback Method
vc	1.050	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	940.06	J/mol×K	861.68	Joback Method
cpg	963.87	J/mol×K	907.19	Joback Method
cpg	984.76	J/mol×K	952.71	Joback Method
cpg	1002.82	J/mol×K	998.22	Joback Method

cpg	1018.12	J/mol×K	1043.73	Joback Method
cpg	1030.72	J/mol×K	1089.25	Joback Method
cpg	1040.72	J/mol×K	1134.76	Joback Method
dvisc	0.0007406	Paxs	428.62	Joback Method
dvisc	0.0001812	Paxs	500.80	Joback Method
dvisc	0.0000632	Paxs	572.97	Joback Method
dvisc	0.0000279	Paxs	645.15	Joback Method
dvisc	0.0000145	Paxs	717.33	Joback Method
dvisc	0.0000085	Paxs	789.50	Joback Method
dvisc	0.0000055	Paxs	861.68	Joback Method
hsubt	108.80 ± 0.80	kJ/mol	361.50	NIST Webbook

## 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=C4384230&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4384230&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>chs:</b>	Standard solid enthalpy of combustion
<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>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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