

# 1,2-bis-(2-Tetrahelicyl)ethylene, cis

<b>Inchi:</b>	InChI=1S/C38H24/c1-3-7-29-19-37-23-33-15-25(11-13-31(33)21-35(37)17-27(29)5-1)9-1
<b>InchiKey:</b>	RSLYVBXLOJRYQE-KTKRTIGZSA-N
<b>Formula:</b>	C38H24
<b>SMILES:</b>	<chem>C(=Cc1ccc2cc3cc4ccccc4cc3cc2c1)c1ccc2cc3cc4ccccc4cc3cc2c1</chem>
<b>Mol. weight [g/mol]:</b>	480.60

## Physical Properties

Property code	Value	Unit	Source
gf	1156.24	kJ/mol	Joback Method
hf	840.23	kJ/mol	Joback Method
hfus	62.24	kJ/mol	Joback Method
hvap	118.50	kJ/mol	Joback Method
log10ws	-14.90		Crippen Method
logp	10.776		Crippen Method
mcvol	377.700	ml/mol	McGowan Method
pc	1301.41	kPa	Joback Method
rinpol	5000.00		NIST Webbook
rinpol	5000.00		NIST Webbook
rinpol	5000.00		NIST Webbook
tb	1270.12	K	Joback Method
tc	1566.09	K	Joback Method
tf	837.10	K	Joback Method
vc	1.460	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1306.20	J/molxK	1270.12	Joback Method
cpg	1343.36	J/molxK	1319.45	Joback Method
cpg	1384.71	J/molxK	1368.78	Joback Method
cpg	1430.90	J/molxK	1418.10	Joback Method
cpg	1482.54	J/molxK	1467.43	Joback Method
cpg	1540.27	J/molxK	1516.76	Joback Method
cpg	1604.72	J/molxK	1566.09	Joback Method

dvisc	0.0025025	Paxs	837.10	Joback Method
dvisc	0.0021022	Paxs	909.27	Joback Method
dvisc	0.0018117	Paxs	981.44	Joback Method
dvisc	0.0015935	Paxs	1053.61	Joback Method
dvisc	0.0014248	Paxs	1125.78	Joback Method
dvisc	0.0012913	Paxs	1197.95	Joback Method
dvisc	0.0011835	Paxs	1270.12	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=R525203&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R525203&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

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