

# 1-Phenyl-2-(2-hexahelicenyl)ethylene, trans

<b>Inchi:</b>	InChI=1S/C34H22/c1-2-7-23(8-3-1)13-14-24-11-6-12-27-17-30-20-31-18-28-15-25-9-4-5
<b>InchiKey:</b>	AEXQMPNELWCXDO-BUHFOSPRSA-N
<b>Formula:</b>	C34H22
<b>SMILES:</b>	C(=Cc1cccc2cc3cc4cc5cc6ccccc6cc5cc4cc3cc12)c1cccc1
<b>Mol. weight [g/mol]:</b>	430.54

## Physical Properties

Property code	Value	Unit	Source
gf	1025.54	kJ/mol	Joback Method
hf	743.19	kJ/mol	Joback Method
hfus	55.25	kJ/mol	Joback Method
hvap	107.30	kJ/mol	Joback Method
log10ws	-13.10		Crippen Method
logp	9.623		Crippen Method
mvol	340.800	ml/mol	McGowan Method
pc	1459.02	kPa	Joback Method
rinpol	4180.00		NIST Webbook
rinpol	4180.00		NIST Webbook
rinpol	4180.00		NIST Webbook
rinpol	4180.00		NIST Webbook
tb	1154.64	K	Joback Method
tc	1439.45	K	Joback Method
tf	746.80	K	Joback Method
vc	1.313	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1110.24	J/molxK	1154.64	Joback Method
cpg	1262.28	J/molxK	1391.98	Joback Method
cpg	1225.68	J/molxK	1344.51	Joback Method
cpg	1192.68	J/molxK	1297.04	Joback Method
cpg	1162.76	J/molxK	1249.58	Joback Method
cpg	1135.45	J/molxK	1202.11	Joback Method

cpg	1302.96	J/molxK	1439.45	Joback Method
dvisc	0.0007860	Paxs	1154.64	Joback Method
dvisc	0.0008670	Paxs	1086.67	Joback Method
dvisc	0.0009689	Paxs	1018.69	Joback Method
dvisc	0.0011003	Paxs	950.72	Joback Method
dvisc	0.0012741	Paxs	882.75	Joback Method
dvisc	0.0015119	Paxs	814.77	Joback Method
dvisc	0.0018508	Paxs	746.80	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R525258&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R525258&amp;Units=SI</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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