

# 1-Phenyl-2-(2-benzo[c]phenathryl)ethylene, trans

Inchi:	InChI=1S/C26H18/c1-2-6-19(7-3-1)10-11-20-12-13-22-15-17-23-16-14-21-8-4-5-9-24(21)
InchiKey:	QUSCSNXGRSOOHC-ZHACJKMWSA-N
Formula:	C26H18
SMILES:	<chem>C(=Cc1ccc2ccc3ccc4ccccc4c3c2c1)c1ccccc1</chem>
Mol. weight [g/mol]:	330.42

## Physical Properties

Property code	Value	Unit	Source
gf	764.14	kJ/mol	Joback Method
hf	549.11	kJ/mol	Joback Method
hfus	41.27	kJ/mol	Joback Method
hvap	84.89	kJ/mol	Joback Method
log10ws	-9.49		Crippen Method
logp	7.317		Crippen Method
mcvol	267.000	ml/mol	McGowan Method
pc	1874.03	kPa	Joback Method
rinpol	3510.00		NIST Webbook
rinpol	3510.00		NIST Webbook
tb	923.68	K	Joback Method
tc	1196.10	K	Joback Method
tf	566.20	K	Joback Method
vc	1.022	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	784.31	J/molxK	923.68	Joback Method
cpg	800.69	J/molxK	969.08	Joback Method
cpg	816.66	J/molxK	1014.49	Joback Method
cpg	832.51	J/molxK	1059.89	Joback Method
cpg	848.58	J/molxK	1105.29	Joback Method
cpg	865.18	J/molxK	1150.70	Joback Method
cpg	882.62	J/molxK	1196.10	Joback Method
dvisc	0.0012046	Paxs	566.20	Joback Method

dvisc	0.0008967	Paxs	625.78	Joback Method
dvisc	0.0007027	Paxs	685.36	Joback Method
dvisc	0.0005725	Paxs	744.94	Joback Method
dvisc	0.0004809	Paxs	804.52	Joback Method
dvisc	0.0004137	Paxs	864.10	Joback Method
dvisc	0.0003629	Paxs	923.68	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=R525243&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R525243&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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