

# 4-Methoxy-4'-hexoxy-trans-stilbene

<b>Inchi:</b>	InChI=1S/C21H26O2/c1-3-4-5-6-17-23-21-15-11-19(12-16-21)8-7-18-9-13-20(22-2)14-10
<b>InchiKey:</b>	MWDBDMGQXOYWJG-BQYQJAHWSA-N
<b>Formula:</b>	C21H26O2
<b>SMILES:</b>	CCCCCOc1ccc(C=Cc2ccc(OC)cc2)cc1
<b>Mol. weight [g/mol]:</b>	310.43
<b>CAS:</b>	35135-44-5

## Physical Properties

Property code	Value	Unit	Source
gf	201.72	kJ/mol	Joback Method
hf	-173.87	kJ/mol	Joback Method
hfus	40.03	kJ/mol	Joback Method
hvap	72.99	kJ/mol	Joback Method
log10ws	-6.41		Crippen Method
logp	5.825		Crippen Method
mvol	266.670	ml/mol	McGowan Method
pc	1497.67	kPa	Joback Method
tb	792.20	K	Joback Method
tc	1008.83	K	Joback Method
tf	430.00 ± 1.00	K	NIST Webbook
vc	1.012	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	856.71	J/mol×K	972.73	Joback Method
cpg	843.47	J/mol×K	936.62	Joback Method
cpg	829.17	J/mol×K	900.52	Joback Method
cpg	813.76	J/mol×K	864.41	Joback Method
cpg	797.17	J/mol×K	828.31	Joback Method
cpg	779.37	J/mol×K	792.20	Joback Method
cpg	868.92	J/mol×K	1008.83	Joback Method
dvisc	0.0005270	Paxs	443.69	Joback Method
dvisc	0.0000454	Paxs	792.20	Joback Method

dvisc	0.0000581	Paxs	734.12	Joback Method
dvisc	0.0000776	Paxs	676.03	Joback Method
dvisc	0.0001095	Paxs	617.94	Joback Method
dvisc	0.0001658	Paxs	559.86	Joback Method
dvisc	0.0002765	Paxs	501.78	Joback Method
hfust	41.38	kJ/mol	430.00	NIST Webbook
sfust	96.20	J/mol×K	430.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C35135445&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35135445&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>hfust:</b>	Enthalpy of fusion 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>sfust:</b>	Entropy of fusion at a given temperature
<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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