

# 4-Methoxy-4'-butoxy-trans-stilbene

<b>Inchi:</b>	InChI=1S/C19H22O2/c1-3-4-15-21-19-13-9-17(10-14-19)6-5-16-7-11-18(20-2)12-8-16/h5
<b>InchiKey:</b>	RKTLNHBAULXRBR-AATRIKPKSA-N
<b>Formula:</b>	C19H22O2
<b>SMILES:</b>	CCCCOc1ccc(C=Cc2ccc(OC)cc2)cc1
<b>Mol. weight [g/mol]:</b>	282.38
<b>CAS:</b>	35135-42-3

## Physical Properties

Property code	Value	Unit	Source
gf	184.88	kJ/mol	Joback Method
hf	-132.59	kJ/mol	Joback Method
hfus	34.85	kJ/mol	Joback Method
hvap	68.54	kJ/mol	Joback Method
log10ws	-5.57		Crippen Method
logp	5.045		Crippen Method
mvol	238.490	ml/mol	McGowan Method
pc	1747.74	kPa	Joback Method
tb	746.44	K	Joback Method
tc	968.89	K	Joback Method
tf	421.15	K	Joback Method
vc	0.899	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	665.69	J/molxK	746.44	Joback Method
cpg	683.19	J/molxK	783.51	Joback Method
cpg	699.49	J/molxK	820.59	Joback Method
cpg	714.63	J/molxK	857.66	Joback Method
cpg	728.65	J/molxK	894.74	Joback Method
cpg	741.62	J/molxK	931.81	Joback Method
cpg	753.57	J/molxK	968.89	Joback Method
dvisc	0.0003313	Paxs	475.36	Joback Method
dvisc	0.0006150	Paxs	421.15	Joback Method

dvisc	0.0002026	Paxs	529.58	Joback Method
dvisc	0.0001357	Paxs	583.79	Joback Method
dvisc	0.0000973	Paxs	638.01	Joback Method
dvisc	0.0000735	Paxs	692.22	Joback Method
dvisc	0.0000579	Paxs	746.44	Joback Method
hfust	39.66	kJ/mol	442.00	NIST Webbook
sfust	89.70	J/mol×K	442.00	NIST Webbook

## 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=C35135423&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35135423&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>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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