

# 4-Methoxy-4'-dodecoxy-trans-stilbene

<b>Inchi:</b>	InChI=1S/C27H38O2/c1-3-4-5-6-7-8-9-10-11-12-23-29-27-21-17-25(18-22-27)14-13-24-
<b>InchiKey:</b>	ZTKXXACFPFBWBM-BUHFOSPRSA-N
<b>Formula:</b>	C27H38O2
<b>SMILES:</b>	CCCCCCCCCCCCOc1ccc(C=Cc2ccc(OC)cc2)cc1
<b>Mol. weight [g/mol]:</b>	394.59
<b>CAS:</b>	35135-49-0

## Physical Properties

Property code	Value	Unit	Source
gf	252.24	kJ/mol	Joback Method
hf	-297.71	kJ/mol	Joback Method
hfus	55.57	kJ/mol	Joback Method
hvap	86.35	kJ/mol	Joback Method
log10ws	-8.92		Crippen Method
logp	8.165		Crippen Method
mvol	351.210	ml/mol	McGowan Method
pc	1001.44	kPa	Joback Method
tb	929.48	K	Joback Method
tc	1143.72	K	Joback Method
tf	415.00 ± 1.00	K	NIST Webbook
vc	1.347	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1140.43	J/molxK	929.48	Joback Method
cpg	1158.86	J/molxK	965.19	Joback Method
cpg	1175.98	J/molxK	1000.89	Joback Method
cpg	1191.86	J/molxK	1036.60	Joback Method
cpg	1206.57	J/molxK	1072.30	Joback Method
cpg	1220.17	J/molxK	1108.01	Joback Method
cpg	1232.73	J/molxK	1143.72	Joback Method
dvisc	0.0001438	Paxs	581.00	Joback Method
dvisc	0.0002932	Paxs	511.31	Joback Method

dvisc	0.0000821	Paxs	650.70	Joback Method
dvisc	0.0000523	Paxs	720.39	Joback Method
dvisc	0.0000360	Paxs	790.09	Joback Method
dvisc	0.0000264	Paxs	859.78	Joback Method
dvisc	0.0000203	Paxs	929.48	Joback Method
hfust	58.66	kJ/mol	415.00	NIST Webbook
sfust	141.30	J/molxK	415.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C35135490&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35135490&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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