

# Stilbene, «alpha»-methyl-, (E)-

<b>Other names:</b>	Benzene, 1,1'-(1-methyl-1,2-ethenediyl)bis-, (E)- (E)-«alpha»-Methylstilbene trans-«alpha»-Methylstilbene trans-1,2-Diphenyl-1-propene trans-1,2-Diphenylpropene Benzene,trans-1,1'-(1-methyl- 1,2-ethenediyl)bis-
<b>Inchi:</b>	InChI=1S/C15H14/c1-13(15-10-6-3-7-11-15)12-14-8-4-2-5-9-14/h2-12H,1H3/b13-12+
<b>InchiKey:</b>	OVZXISBUYCEVEV-OUKQBFOZSA-N
<b>Formula:</b>	C15H14
<b>SMILES:</b>	CC(=Cc1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	194.27
<b>CAS:</b>	833-81-8

## Physical Properties

Property code	Value	Unit	Source
chs	-8113.00	kJ/mol	NIST Webbook
gf	371.91	kJ/mol	Joback Method
hf	227.56	kJ/mol	Joback Method
hfus	21.58	kJ/mol	Joback Method
hvap	53.57	kJ/mol	Joback Method
ie	8.10 ± 0.05	eV	NIST Webbook
log10ws	-4.50		Crippen Method
logp	4.247		Crippen Method
mcvol	170.390	ml/mol	McGowan Method
pc	2659.77	kPa	Joback Method
tb	558.70	K	NIST Webbook
tc	850.12	K	Joback Method
tf	354.65 ± 2.00	K	NIST Webbook
vc	0.640	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	401.25	J/mol×K	600.00	Joback Method

cpg	419.27	J/mol×K	641.69	Joback Method
cpg	435.81	J/mol×K	683.37	Joback Method
cpg	450.99	J/mol×K	725.06	Joback Method
cpg	464.92	J/mol×K	766.75	Joback Method
cpg	477.72	J/mol×K	808.43	Joback Method
cpg	489.51	J/mol×K	850.12	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C833818&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C833818&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>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<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>ie:</b>	Ionization energy
<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>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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