

# 4,4'-Stilbenedicarbonitrile

<b>Other names:</b>	Benzonitrile, 4,4'-(1,2-ethenediyl)bis-4,4'-Dicyanostilbene Stilbene-4,4'-dicarbonitrile
<b>Inchi:</b>	InChI=1S/C16H10N2/c17-11-15-7-3-13(4-8-15)1-2-14-5-9-16(12-18)10-6-14/h1-10H/b2-
<b>InchiKey:</b>	RNIZPDIBRXCMRD-OWOJBTEDSA-N
<b>Formula:</b>	C16H10N2
<b>SMILES:</b>	N#Cc1ccc(C=Cc2ccc(C#N)cc2)cc1
<b>Mol. weight [g/mol]:</b>	230.26
<b>CAS:</b>	6292-62-2

## Physical Properties

Property code	Value	Unit	Source
gf	635.98	kJ/mol	Joback Method
hf	523.53	kJ/mol	Joback Method
hfus	27.71	kJ/mol	Joback Method
hvap	78.00	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	3.600		Crippen Method
mcvol	187.240	ml/mol	McGowan Method
pc	2224.99	kPa	Joback Method
tb	837.12	K	Joback Method
tc	1098.98	K	Joback Method
tf	472.86	K	Joback Method
vc	0.748	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	488.35	J/molxK	837.12	Joback Method
cpg	499.01	J/molxK	880.76	Joback Method
cpg	508.80	J/molxK	924.41	Joback Method
cpg	517.84	J/molxK	968.05	Joback Method
cpg	526.22	J/molxK	1011.70	Joback Method
cpg	534.05	J/molxK	1055.34	Joback Method

## Sources

<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=C6292622&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6292622&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<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>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</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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