

4,4'-Dimethoxystilbene

Inchi:	InChI=1S/C16H16O2/c1-17-15-9-5-13(6-10-15)3-4-14-7-11-16(18-2)12-8-14/h3-12H,1-2H
InchiKey:	CAWFCZIEFIQKRV-ONEGZZNKSA-N
Formula:	C16H16O2
SMILES:	COc1ccc(C=Cc2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	240.30
CAS:	15638-14-9

Physical Properties

Property code	Value	Unit	Source
gf	159.62	kJ/mol	Joback Method
hf	-70.67	kJ/mol	Joback Method
hfus	27.08	kJ/mol	Joback Method
hvap	61.86	kJ/mol	Joback Method
log10ws	-4.32		Crippen Method
logp	3.874		Crippen Method
mcvol	196.220	ml/mol	McGowan Method
pc	2258.96	kPa	Joback Method
rinpol	2301.40		NIST Webbook
tb	677.80	K	Joback Method
tc	912.53	K	Joback Method
tf	387.34	K	Joback Method
vc	0.732	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.36	J/mol×K	677.80	Joback Method
cpg	519.99	J/mol×K	716.92	Joback Method
cpg	535.45	J/mol×K	756.04	Joback Method
cpg	549.79	J/mol×K	795.17	Joback Method
cpg	563.03	J/mol×K	834.29	Joback Method
cpg	575.23	J/mol×K	873.41	Joback Method
cpg	586.43	J/mol×K	912.53	Joback Method
dvisc	0.0007361	Pa×s	387.34	Joback Method

dvisc	0.0004145	Pa×s	435.75	Joback Method
dvisc	0.0002619	Pa×s	484.16	Joback Method
dvisc	0.0001798	Pa×s	532.57	Joback Method
dvisc	0.0001315	Pa×s	580.98	Joback Method
dvisc	0.0001009	Pa×s	629.39	Joback Method
dvisc	0.0000804	Pa×s	677.80	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15638149&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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