4-Amino-4'-(N,N-dimethylamino)stilbene

Other names: Benzenamine, 4-[2-(4-aminophenyl)ethenyl]-N,N-dimethyl-
Inchi: InChI=1S/C16H18N2/c1-18(2)16-11-7-14(8-12-16)4-3-13-5-9-15(17)10-6-13/h3-12H,17H
InchiKey: GCHSJPKVJSMRDX-ONEGZZNKSA-N
Formula: C16H18N2
SMILES: CN(C)c1ccc(C=Cc2ccc(N)cc2)cc1
Mol. weight [g/mol]: 238.33
CAS: 22525-43-5

Physical Properties

Property code	Value	Unit	Source
gf	546.85	kJ/mol	Joback Method
hf	295.09	kJ/mol	Joback Method
hfus	32.92	kJ/mol	Joback Method
hvap	69.73	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.505		Crippen Method
mcvol	204.440	ml/mol	McGowan Method
pc	2462.92	kPa	Joback Method
tb	717.93	K	Joback Method
tc	961.28	K	Joback Method
tf	458.61	K	Joback Method
vc	0.743	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	552.98	J/mol×K	717.93	Joback Method
cpg	569.46	J/mol×K	758.49	Joback Method
cpg	584.67	J/mol×K	799.05	Joback Method
cpg	598.72	J/mol×K	839.61	Joback Method
cpg	611.72	J/mol×K	880.17	Joback Method
cpg	623.79	J/mol×K	920.72	Joback Method
cpg	635.02	J/mol×K	961.28	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C22525435&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume