N,N-Dimethyl-4-(2-phenylethenyl)benzeneamine

Inchi: InChI=1S/C17H19N/c1-18(2)14-17-12-10-16(11-13-17)9-8-15-6-4-3-5-7-15/h3-13H,14H2
InchiKey: NTDZLXVJSYTARX-CMDGGOBGSA-N
Formula: C17H19N
SMILES: CN(C)Cc1ccc(C=Cc2ccccc2)cc1
Mol. weight [g/mol]: 237.34

Physical Properties

Property code	Value	Unit	Source
gf	498.45	kJ/mol	Joback Method
hf	252.13	kJ/mol	Joback Method
hfus	30.70	kJ/mol	Joback Method
hvap	60.65	kJ/mol	Joback Method
log10ws	-4.36		Crippen Method
logp	3.919		Crippen Method
mcvol	208.550	ml/mol	McGowan Method
pc	2157.31	kPa	Joback Method
rinpol	2142.00		NIST Webbook
tb	663.30	K	Joback Method
tc	895.59	K	Joback Method
tf	374.10	K	Joback Method
vc	0.769	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	541.50	J/mol×K	663.30	Joback Method
cpg	559.92	J/mol×K	702.01	Joback Method
cpg	576.97	J/mol×K	740.73	Joback Method
cpg	592.76	J/mol×K	779.44	Joback Method
cpg	607.38	J/mol×K	818.16	Joback Method
cpg	620.96	J/mol×K	856.87	Joback Method
cpg	633.59	J/mol×K	895.59	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R553154&Units=SI

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume