N,n'-di-beta-naphthyl-p-phenylene diamine

Inchi: InChI=1S/C26H20N2/c1-3-8-21-16-25(14-12-19(21)6-1)27-23-10-5-11-24(18-23)28-26-15
InchiKey: AJOAZEMNFCIPMQ-UHFFFAOYSA-N
Formula: C26H20N2
SMILES: c1cc(Nc2ccc3ccccc3c2)cc(Nc2ccc3ccccc3c2)c1
Mol. weight [g/mol]: 360.45

Physical Properties

Property code	Value	Unit	Source
gf	868.46	kJ/mol	Joback Method
hf	584.29	kJ/mol	Joback Method
hfus	48.29	kJ/mol	Joback Method
hvap	98.44	kJ/mol	Joback Method
log10ws	-8.69		Crippen Method
logp	7.480		Crippen Method
mcvol	286.960	ml/mol	McGowan Method
pc	1975.31	kPa	Joback Method
tb	1027.56	K	Joback Method
tc	1299.52	K	Joback Method
tf	670.32	K	Joback Method
vc	1.081	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	897.59	J/mol×K	1027.56	Joback Method
cpg	912.51	J/mol×K	1072.89	Joback Method
cpg	927.03	J/mol×K	1118.21	Joback Method
cpg	941.41	J/mol×K	1163.54	Joback Method
cpg	955.93	J/mol×K	1208.87	Joback Method
cpg	970.85	J/mol×K	1254.19	Joback Method
cpg	986.44	J/mol×K	1299.52	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=B6002113&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
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