N,N'-DI-2-NAPHTHYL-P-PHENYLENEDIAMINE

Other names:	Diafen NN
	1,4-Benzenediamine, N,N'-di-2-naphthalenyl-
	p-Phenylenediamine, N,N'-di-2-naphthyl-
	s-Di(«beta»-naphthyl)-p-phenylenediamine
	Aceto DIPP
	AgeRite W
	AgeRite White
	Antigene F
	Antioxidant DNP
	Antioxidant 123
	ASM-DNT
	Di(«beta»-naphthyl)-p-phenyldiamine
	Di(«beta»-naphthyl-p-phenylenediamine
	DNPD
	DNPDA
	N,N'-p-Phenylenebis(2-naphthylamine)
	N,N'-Bis(«beta»-naphthyl)-p-phenylenediamine
	N,N'-Di(«beta»-naphthyl-p-phenylenediamine
	Nonox CL
	Santowhite CL
	Tisperse MB-2X
	1,4-Bis(2-naphthylamino)benzene
	2-Naphthyl-p-phenylenediamine
	N,N'-Bis-(2-naftyl)-p-fenylendiamin
	N,N'-Bis(2-naphthyl)-p-phenylenediamine
	sym-Di-«beta»-naphthyl-p-phenylenediamine
	Dwu-«beta»-naftylo-p-fenylodwuamina
	1,4-Benzenediamine, N,N'-bis-2-naphthylenyl-
	DBNPD
	N,N'-Di-beta-naphthyl-p-phenylenediamine
	Benzene-1,4-diamine, N,N'-di(2-naphthyl)-
	N,N'-Di-(2-naphthyl)-1,4-diaminobenzene
	NSC 3410
Inchi:	InChI=1S/C26H20N2/c1-3-7-21-17-25(11-9-19(21)5-1)27-23-13-15-24(16-14-23)28-26-1
InchiKey:	VETPHHXZEJAYOB-UHFFFAOYSA-N
Formula:	C26H20N2
SMILES:	c1ccc2cc(Nc3ccc(Nc4ccc5ccccc5c4)cc3)ccc2c1
Mol. weight [g/mol]:	360.46

Physical Properties

Property code	Value	Unit	Source
af	0.8094		Cheméo Relay (1.0)
gf	868.46	kJ/mol	Joback Method
hf	429.14	kJ/mol	Cheméo Relay (1.0)
hfus	48.29	kJ/mol	Joback Method
hvap	162.43	kJ/mol	Cheméo Relay (1.0)
ie	6.72	eV	Cheméo Relay (1.0)
log10ws	-8.73		Cheméo Relay (1.0)
logp	7.480		Crippen Method
mcvol	286.960	ml/mol	McGowan Method
pc	1975.31	kPa	Joback Method
tb	833.56	K	Cheméo Relay (1.0)
tc	1275.66	K	Cheméo Relay (1.0)
tf	517.52	K	Cheméo Relay (1.0)
vc	1.031	m3/kmol	Cheméo Relay (1.0)

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

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C93469&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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