P-phenylenediamine, n,n'-diethyl-n,n'-di-b-naphthyl-

Inchi: InChI=1S/C30H28N2/c1-3-31(28-17-16-23-10-5-6-12-25(23)22-28)26-18-20-27(21-19-26
InchiKey: BESXXJJZYXDIQA-UHFFFAOYSA-N
Formula: C30H28N2
SMILES: CCN(c1ccc(N(CC)c2cccc3ccccc23)cc1)c1ccc2ccccc2c1
Mol. weight [g/mol]: 416.56

Physical Properties

Property code	Value	Unit	Source
gf	944.92	kJ/mol	Joback Method
hf	529.85	kJ/mol	Joback Method
hfus	54.49	kJ/mol	Joback Method
hvap	98.55	kJ/mol	Joback Method
log10ws	-9.33		Crippen Method
logp	8.309		Crippen Method
mcvol	343.320	ml/mol	McGowan Method
pc	1409.07	kPa	Joback Method
tb	1043.62	K	Joback Method
tc	1300.89	K	Joback Method
tf	675.02	K	Joback Method
vc	1.272	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1115.37	J/mol×K	1043.62	Joback Method
cpg	1132.95	J/mol×K	1086.50	Joback Method
cpg	1150.18	J/mol×K	1129.38	Joback Method
cpg	1167.35	J/mol×K	1172.25	Joback Method
cpg	1184.72	J/mol×K	1215.13	Joback Method
cpg	1202.58	J/mol×K	1258.01	Joback Method
cpg	1221.19	J/mol×K	1300.89	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=B6000765&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