

Benzenamine, 4-octyl-N-(4-octylphenyl)-

Other names:	p,p-Dioctyldiphenylamine p,p'-Dioctyldiphenylamine Bis(p-octylphenyl)amine Diphenylamine, 4,4'-dioctyl- 4,4'-Dioctyldiphenylamine 4,4'-Dioctylphenylamine 4-Octyl-N-(4-octylphenyl)benzenamine Naugalube 438 Vanox ODP Bis(4-octylphenyl)amine NSC 79268
Inchi:	InChI=1S/C28H43N/c1-3-5-7-9-11-13-15-25-17-21-27(22-18-25)29-28-23-19-26(20-24-26)
InchiKey:	QAPVYZRWKDXNDK-UHFFFAOYSA-N
Formula:	C28H43N
SMILES:	CCCCCCCCc1ccc(Nc2ccc(CCCCCCCC)cc2)cc1
Mol. weight [g/mol]:	393.65
CAS:	101-67-7

Physical Properties

Property code	Value	Unit	Source
gf	479.83	kJ/mol	Joback Method
hf	-117.66	kJ/mol	Joback Method
hfus	60.68	kJ/mol	Joback Method
hvap	90.23	kJ/mol	Joback Method
log10ws	-9.91		Crippen Method
logp	9.236		Crippen Method
mcvol	367.840	ml/mol	McGowan Method
pc	940.37	kPa	Joback Method
tb	953.53	K	Joback Method
tc	1169.39	K	Joback Method
tf	535.86	K	Joback Method
vc	1.423	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1232.80	J/mol×K	953.53	Joback Method
cpg	1252.21	J/mol×K	989.51	Joback Method
cpg	1270.37	J/mol×K	1025.48	Joback Method
cpg	1287.37	J/mol×K	1061.46	Joback Method
cpg	1303.29	J/mol×K	1097.44	Joback Method
cpg	1318.24	J/mol×K	1133.41	Joback Method
cpg	1332.30	J/mol×K	1169.39	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C101677&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

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

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