

1,2-Dianilinoethane

Other names:

N,N'-Diphenylethylenediamine
1,2-Ethanediamine, N,N'-diphenyl-
sym-Diphenylethylenediamine
Aniline, N,N'-ethylenedi-
Benzenamine, N,N'-1,2-ethanediylbis-
Ethylenediamine, N,N'-diphenyl-
N,N'-Diphenyl-«alpha», «omega»-diaminoethane
N,N'-Diphenyl-1,2-ethylenediamine
N,N'-Ethylenedianiline
NODX
Stabilite
N,N'-Difenylethylendiamin
1,2-Ethanediamine, N1,N2-diphenyl-
NSC 8719

Inchi:

InChI=1S/C14H16N2/c1-3-7-13(8-4-1)15-11-12-16-14-9-5-2-6-10-14/h1-10,15-16H,11-12

InchiKey:

NOUUUQMKVOUUNR-UHFFFAOYSA-N

Formula:

C14H16N2

SMILES:

c1ccc(NCCNc2ccccc2)cc1

Mol. weight [g/mol]:

212.29

CAS:

150-61-8

Physical Properties

Property code	Value	Unit	Source
gf	470.60	kJ/mol	Joback Method
hf	247.71	kJ/mol	Joback Method
hfus	30.30	kJ/mol	Joback Method
hvap	64.18	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	3.211		Crippen Method
mvol	180.560	ml/mol	McGowan Method
pc	2847.48	kPa	Joback Method
tb	673.42	K	Joback Method
tc	908.64	K	Joback Method
tf	405.70	K	Joback Method
vc	0.673	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.98	J/mol×K	673.42	Joback Method
cpg	493.15	J/mol×K	712.62	Joback Method
cpg	508.05	J/mol×K	751.83	Joback Method
cpg	521.76	J/mol×K	791.03	Joback Method
cpg	534.38	J/mol×K	830.24	Joback Method
cpg	545.98	J/mol×K	869.44	Joback Method
cpg	556.65	J/mol×K	908.64	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C150618&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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