

Ethanimidamide, N,N'-diphenyl-

Other names:

Acetamidine, N,N'-diphenyl-
N,N'-Diphenylacetamidine
N,N'-Diphenylethanimidamide
N,N-Diphenylacetamidine

Inchi:

InChI=1S/C14H14N2/c1-12(15-13-8-4-2-5-9-13)16-14-10-6-3-7-11-14/h2-11H,1H3,(H,15

InchiKey:

CLWIJUQLAFJNOF-UHFFFAOYSA-N

Formula:

C14H14N2

SMILES:

CC(=Nc1cccc1)Nc1cccc1

Mol. weight [g/mol]:

210.27

CAS:

621-09-0

Physical Properties

Property code	Value	Unit	Source
hf	266.67	kJ/mol	Joback Method
hvap	61.14	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	3.849		Crippen Method
mvol	176.260	ml/mol	McGowan Method
pc	2532.82	kPa	Joback Method
tb	699.81	K	Joback Method
tc	955.94	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	122.60 ± 3.80	kJ/mol	363.00	NIST Webbook

Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C621090&Units=SI>

Legend

hf: Enthalpy of formation at standard conditions
hsubt: Enthalpy of sublimation at a given temperature
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

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