

1H-Imidazol-2-amine, 4,5-dihydro-N-(5,6,7,8-tetrahydro-1-naphthalenyl)-

Other names:

Tramazoline

Imidazolidine,2-[(5,6,7,8-tetrahydronaphthal-1-yl]imino-

2-[(5,6,7,8-Tetrahydro-1-naphthyl)amino]-2-imidazoline

4,5-Dihydro-N-(5,6,7,8-tetrahydro-1-naphthalenyl)-1H-imidazol-2-amine

Inchi: InChI=1S/C13H17N3/c1-2-6-11-10(4-1)5-3-7-12(11)16-13-14-8-9-15-13/h3,5,7H,1-2,4,6,

InchiKey: QQJLHRRUATVHED-UHFFFAOYSA-N

Formula: C13H17N3

SMILES: c1cc2c(c(NC3=NCCN3)c1)CCCC2

Mol. weight [g/mol]: 215.29

CAS: 1082-57-1

Physical Properties

Property code	Value	Unit	Source
gf	566.56	kJ/mol	Joback Method
hf	278.30	kJ/mol	Joback Method
hfus	31.18	kJ/mol	Joback Method
hvap	69.45	kJ/mol	Joback Method
ie	7.62	eV	NIST Webbook
log10ws	-3.06		Crippen Method
logp	1.936		Crippen Method
mcvol	174.190	ml/mol	McGowan Method
pc	3443.98	kPa	Joback Method
tb	725.67	K	Joback Method
tc	990.16	K	Joback Method
tf	564.04	K	Joback Method
vc	0.654	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	514.94	J/molxK	725.67	Joback Method
cpg	533.27	J/molxK	769.75	Joback Method
cpg	550.01	J/molxK	813.83	Joback Method
cpg	565.26	J/molxK	857.92	Joback Method

cpg	579.10	J/mol×K	902.00	Joback Method
cpg	591.63	J/mol×K	946.08	Joback Method
cpg	602.94	J/mol×K	990.16	Joback Method

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=C1082571&Units=SI

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
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

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