Diethylpent-4-enylamine

Other names: N,N-diethyl-4-pentenylamine
Inchi: InChI=1S/C9H19N/c1-4-7-8-9-10(5-2)6-3/h4H,1,5-9H2,2-3H3
InchiKey: LADWJVRVWWFPKV-UHFFFAOYSA-N
Formula: C9H19N
SMILES: C=CCCCN(CC)CC
Mol. weight [g/mol]: 141.25
CAS: 13173-21-2

Physical Properties

Property code	Value	Unit	Source
gf	223.52	kJ/mol	Joback Method
hf	-36.13	kJ/mol	Joback Method
hfus	20.81	kJ/mol	Joback Method
hvap	37.00	kJ/mol	Joback Method
log10ws	-2.01		Crippen Method
logp	2.294		Crippen Method
mcvol	143.350	ml/mol	McGowan Method
pc	2398.22	kPa	Joback Method
tb	414.44	K	Joback Method
tc	579.44	K	Joback Method
tf	221.90	K	Joback Method
vc	0.538	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.56	J/mol×K	551.94	Joback Method
cpg	287.47	J/mol×K	414.44	Joback Method
cpg	302.07	J/mol×K	441.94	Joback Method
cpg	316.05	J/mol×K	469.44	Joback Method
cpg	329.45	J/mol×K	496.94	Joback Method
cpg	342.28	J/mol×K	524.44	Joback Method
cpg	366.31	J/mol×K	579.44	Joback Method
hvapt	41.50	kJ/mol	384.00	NIST Webbook

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13173212&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
hvapt:	Enthalpy of vaporization at a given temperature
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