1-Butanamine, 3-methyl, N,N-diethyl

Other names: Diethyl isoamylamine
Inchi: InChI=1S/C9H21N/c1-5-10(6-2)8-7-9(3)4/h9H,5-8H2,1-4H3
InchiKey: FJPUTKPSUZLWMN-UHFFFAOYSA-N
Formula: C9H21N
SMILES: CCN(CC)CCC(C)C
Mol. weight [g/mol]: 143.27

Physical Properties

Property code	Value	Unit	Source
gf	133.24	kJ/mol	Joback Method
hf	-166.84	kJ/mol	Joback Method
hfus	18.56	kJ/mol	Joback Method
hvap	37.28	kJ/mol	Joback Method
log10ws	-1.92		Crippen Method
logp	2.374		Crippen Method
mcvol	147.650	ml/mol	McGowan Method
pc	2320.31	kPa	Joback Method
rinpol	902.00		NIST Webbook
rinpol	902.00		NIST Webbook
tb	417.32	K	Joback Method
tc	582.69	K	Joback Method
tf	208.66	K	Joback Method
vc	0.551	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.29	J/mol×K	417.32	Joback Method
cpg	318.76	J/mol×K	444.88	Joback Method
cpg	333.62	J/mol×K	472.44	Joback Method
cpg	347.88	J/mol×K	500.01	Joback Method
cpg	361.56	J/mol×K	527.57	Joback Method
cpg	374.67	J/mol×K	555.13	Joback Method
cpg	387.23	J/mol×K	582.69	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R12832&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume