

5-Nonylamine

Other names:	5-Aminononane
Inchi:	InChI=1S/C9H21N/c1-3-5-7-9(10)8-6-4-2/h9H,3-8,10H2,1-2H3
InchiKey:	BKEVGGILGWUWSB-UHFFFAOYSA-N
Formula:	C9H21N
SMILES:	CCCCC(N)CCCC
Mol. weight [g/mol]:	143.27
CAS:	2198-45-0

Physical Properties

Property code	Value	Unit	Source
gf	88.91	kJ/mol	Joback Method
hf	-200.58	kJ/mol	Joback Method
hfus	20.74	kJ/mol	Joback Method
hvap	45.88	kJ/mol	Joback Method
log10ws	-3.14		Crippen Method
logp	2.694		Crippen Method
mcvol	147.650	ml/mol	McGowan Method
pc	2458.04	kPa	Joback Method
tb	477.41	K	Joback Method
tc	656.97	K	Joback Method
tf	259.45	K	Joback Method
vc	0.562	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.69	J/mol×K	477.41	Joback Method
cpg	351.64	J/mol×K	507.34	Joback Method
cpg	365.96	J/mol×K	537.26	Joback Method
cpg	379.67	J/mol×K	567.19	Joback Method
cpg	392.79	J/mol×K	597.12	Joback Method
cpg	405.32	J/mol×K	627.04	Joback Method
cpg	417.30	J/mol×K	656.97	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C2198450&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
h vap:	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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