

Tertiary octyl amine

Inchi:	InChI=1S/C8H19N/c1-8(2,3)6-4-5-7-9/h4-7,9H2,1-3H3
InchiKey:	GAHCNYHAKKGGHF-UHFFFAOYSA-N
Formula:	C8H19N
SMILES:	CC(C)(C)CCCCN
Mol. weight [g/mol]:	129.24
CAS:	60996-53-4

Physical Properties

Property code	Value	Unit	Source
gf	85.77	kJ/mol	Joback Method
hf	-183.41	kJ/mol	Joback Method
hfus	14.26	kJ/mol	Joback Method
hvap	42.75	kJ/mol	Joback Method
log10ws	-2.36		Crippen Method
logp	2.162		Crippen Method
mcvol	133.560	ml/mol	McGowan Method
pc	2741.15	kPa	Joback Method
tb	451.74	K	Joback Method
tc	640.30	K	Joback Method
tf	265.60	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	295.01	J/molxK	451.74	Joback Method
cpg	309.94	J/molxK	483.17	Joback Method
cpg	324.12	J/molxK	514.59	Joback Method
cpg	337.56	J/molxK	546.02	Joback Method
cpg	350.31	J/molxK	577.44	Joback Method
cpg	362.39	J/molxK	608.87	Joback Method
cpg	373.83	J/molxK	640.30	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C60996534&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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