N,N,3,3-Tetramethylbutylamine

Other names: Ethanamine, N-(2-propylidene
N,N,3,3-Tetramethylbutylamine
Inchi: InChI=1S/C8H19N/c1-8(2,3)6-7-9(4)5/h6-7H2,1-5H3
InchiKey: AEJXDZMWIUEKBG-UHFFFAOYSA-N
Formula: C8H19N
SMILES: CN(C)CCC(C)(C)C
Mol. weight [g/mol]: 129.25

Physical Properties

Property code	Value	Unit	Source
af	0.3533		Cheméo Relay (1.0)
affp	973.00	kJ/mol	NIST Webbook
basg	942.00	kJ/mol	NIST Webbook
hf	-140.65	kJ/mol	Cheméo Relay (1.0)
hfus	12.08	kJ/mol	Joback Method
hvap	39.30	kJ/mol	Cheméo Relay (1.0)
ie	8.30	eV	NIST Webbook
ie	8.83	eV	NIST Webbook
logp	1.984		Crippen Method
mcvol	133.560	ml/mol	McGowan Method
pc	2579.34	kPa	Joback Method
tb	399.34	K	Cheméo Relay (1.0)
tc	569.67	K	Cheméo Relay (1.0)
tf	230.55	K	Cheméo Relay (1.0)
vc	0.495	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	262.31	J/mol×K	391.65	Joback Method
cpg	277.98	J/mol×K	420.45	Joback Method
cpg	292.90	J/mol×K	449.24	Joback Method
cpg	307.10	J/mol×K	478.04	Joback Method
cpg	320.61	J/mol×K	506.84	Joback Method

cpg	333.45	J/mol×K	535.63	Joback Method
cpg	345.65	J/mol×K	564.43	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15673048&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

af:	Acentric Factor
affp:	Proton affinity
basg:	Gas basicity
cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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