

N-Ethyl trimethylenediamine

Inchi:	InChI=1S/C5H14N2/c1-2-7-5-3-4-6/h7H,2-6H2,1H3
InchiKey:	ODGYWRBCQWKSSH-UHFFFAOYSA-N
Formula:	C5H14N2
SMILES:	CCNCCCN
Mol. weight [g/mol]:	102.18
CAS:	38571-87-8

Physical Properties

Property code	Value	Unit	Source
gf	147.06	kJ/mol	Joback Method
hf	-59.27	kJ/mol	Joback Method
hfus	19.00	kJ/mol	Joback Method
hvap	43.80	kJ/mol	Joback Method
log10ws	-0.54		Crippen Method
logp	-0.055		Crippen Method
mcvol	101.270	ml/mol	McGowan Method
pc	3773.04	kPa	Joback Method
tb	436.50	K	Joback Method
tc	621.90	K	Joback Method
tf	282.03	K	Joback Method
vc	0.380	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.90	J/mol×K	436.50	Joback Method
cpg	224.78	J/mol×K	467.40	Joback Method
cpg	235.20	J/mol×K	498.30	Joback Method
cpg	245.17	J/mol×K	529.20	Joback Method
cpg	254.70	J/mol×K	560.10	Joback Method
cpg	263.81	J/mol×K	591.00	Joback Method
cpg	272.50	J/mol×K	621.90	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C38571878&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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