1-Propanamine, N-ethyl-N-methyl-

Other names:	Ethylmethylpropylamine
	Methylethylpropylamine
	Propylamine, N-ethyl-N-methyl-
Inchi:	InChI=1S/C6H15N/c1-4-6-7(3)5-2/h4-6H2,1-3H3
InchiKey:	SMBYUOXUISCLCF-UHFFFAOYSA-N
Formula:	C6H15N
SMILES:	CCCN(C)CC
Mol. weight [g/mol]:	101.19
CAS:	4458-32-6

Physical Properties

Property code	Value	Unit	Source
gf	110.42	kJ/mol	Joback Method
hf	-99.64	kJ/mol	Joback Method
hfus	14.32	kJ/mol	Joback Method
hvap	30.99	kJ/mol	Joback Method
log10ws	-0.90		Crippen Method
logp	1.348		Crippen Method
mcvol	105.380	ml/mol	McGowan Method
pc	3100.18	kPa	Joback Method
tb	364.65 ± 2.00	K	NIST Webbook
tb	364.65 ± 2.00	K	NIST Webbook
tc	511.60	K	Joback Method
tf	189.85	K	Joback Method
vc	0.390	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	183.89	J/mol×K	349.12	Joback Method
cpg	195.67	J/mol×K	376.20	Joback Method
cpg	207.01	J/mol×K	403.28	Joback Method
cpg	217.91	J/mol×K	430.36	Joback Method
cpg	228.39	J/mol×K	457.44	Joback Method

cpg	238.45	J/mol×K	484.52	Joback Method
cpg	248.11	J/mol×K	511.60	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.38205e+01
Coeff. B	-2.58463e+03
Coeff. C	-8.37790e+01
Temperature range (K), min.	274.77
Temperature range (K), max.	387.53

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C4458326&Units=SI

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

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

pvap: Vapor pressure

tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume