

# N-Ethyl-2-methylallylamine

<b>Other names:</b>	2-Propen-1-amine, N-ethyl-2-methyl- N-Ethyl methallylamine N-ethylmethacrylamine
<b>Inchi:</b>	InChI=1S/C6H13N/c1-4-7-5-6(2)3/h7H,2,4-5H2,1,3H3
<b>InchiKey:</b>	AXTLFVLHXSDZOW-UHFFFAOYSA-N
<b>Formula:</b>	C6H13N
<b>SMILES:</b>	C=C(C)CNCC
<b>Mol. weight [g/mol]:</b>	99.17
<b>CAS:</b>	18328-90-0

## Physical Properties

Property code	Value	Unit	Source
gf	168.32	kJ/mol	Joback Method
hf	1.94	kJ/mol	Joback Method
hfus	13.80	kJ/mol	Joback Method
hvap	34.80	kJ/mol	Joback Method
log10ws	-1.38		Crippen Method
logp	1.172		Crippen Method
mcvol	101.080	ml/mol	McGowan Method
pc	3325.84	kPa	Joback Method
tb	378.00	K	NIST Webbook
tc	560.29	K	Joback Method
tf	194.32	K	Joback Method
vc	0.389	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	184.80	J/mol×K	383.41	Joback Method
cpg	195.80	J/mol×K	412.89	Joback Method
cpg	206.33	J/mol×K	442.37	Joback Method
cpg	216.42	J/mol×K	471.85	Joback Method
cpg	226.08	J/mol×K	501.33	Joback Method
cpg	235.31	J/mol×K	530.81	Joback Method

cpg

244.14

J/mol×K

560.29

Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.53055e+01
Coeff. B	-3.54593e+03
Coeff. C	-4.62060e+01
Temperature range (K), min.	282.32
Temperature range (K), max.	401.01

## Sources

The Yaws Handbook of Vapor Pressure:  
Crippen Method:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Joback Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

McGowan Method:

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

NIST Webbook:

<http://link.springer.com/article/10.1007/BF02311772>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C18328900&Units=SI>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>pvap:</b>	Vapor pressure
<b>tb:</b>	Normal Boiling Point Temperature

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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