

# N,N'-Ethylenebis-acrylamide

<b>Other names:</b>	N,N-Ethylenebisacrylamide
<b>Inchi:</b>	InChI=1S/C8H12N2O2/c1-3-7(11)9-5-6-10-8(12)4-2/h3-4H,1-2,5-6H2,(H,9,11)(H,10,12)
<b>InchiKey:</b>	AYGYHGXUJBFUJU-UHFFFAOYSA-N
<b>Formula:</b>	C8H12N2O2
<b>SMILES:</b>	C=CC(=O)NCCNC(=O)C=C
<b>Mol. weight [g/mol]:</b>	168.19
<b>CAS:</b>	2956-58-3

## Physical Properties

Property code	Value	Unit	Source
gf	113.10	kJ/mol	Joback Method
hf	-75.81	kJ/mol	Joback Method
hfus	27.31	kJ/mol	Joback Method
hvap	58.43	kJ/mol	Joback Method
log10ws	-0.81		Crippen Method
logp	-0.409		Crippen Method
mcvol	138.080	ml/mol	McGowan Method
pc	3265.31	kPa	Joback Method
tb	583.88	K	Joback Method
tc	780.04	K	Joback Method
tf	381.58	K	Joback Method
vc	0.527	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	328.81	J/mol×K	583.88	Joback Method
cpg	339.63	J/mol×K	616.57	Joback Method
cpg	349.83	J/mol×K	649.27	Joback Method
cpg	359.44	J/mol×K	681.96	Joback Method
cpg	368.47	J/mol×K	714.65	Joback Method
cpg	376.95	J/mol×K	747.34	Joback Method
cpg	384.92	J/mol×K	780.04	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2956583&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2956583&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# 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>hvac:</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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