

# N,N,N',N'-Tetraethyl-1,3-propanediamine

<b>Other names:</b>	N,N,N',N'-Tetraethyl trimethylene diamine
<b>Inchi:</b>	InChI=1S/C11H26N2/c1-5-12(6-2)10-9-11-13(7-3)8-4/h5-11H2,1-4H3
<b>InchiKey:</b>	RCZLVPFECJNLMZ-UHFFFAOYSA-N
<b>Formula:</b>	C11H26N2
<b>SMILES:</b>	CCN(CC)CCCN(CC)CC
<b>Mol. weight [g/mol]:</b>	186.34
<b>CAS:</b>	60558-96-5

## Physical Properties

Property code	Value	Unit	Source
gf	263.30	kJ/mol	Joback Method
hf	-135.31	kJ/mol	Joback Method
hfus	30.29	kJ/mol	Joback Method
hvap	44.17	kJ/mol	Joback Method
log10ws	-1.57		Crippen Method
logp	2.060		Crippen Method
mcvol	185.810	ml/mol	McGowan Method
pc	1927.05	kPa	Joback Method
tb	475.96	K	Joback Method
tc	635.29	K	Joback Method
tf	278.67	K	Joback Method
vc	0.688	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	428.46	J/molxK	475.96	Joback Method
cpg	445.82	J/molxK	502.51	Joback Method
cpg	462.47	J/molxK	529.07	Joback Method
cpg	478.42	J/molxK	555.62	Joback Method
cpg	493.71	J/molxK	582.18	Joback Method
cpg	508.34	J/molxK	608.73	Joback Method
cpg	522.35	J/molxK	635.29	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	406.20	K	11.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C60558965&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C60558965&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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