

# Propylamine, 3,3'-(2,2-dimethyl trimethylenedioxy)bis-

<b>Other names:</b>	3,3'-[(2,2-dimethylpropane-1,3-diyl)bis(oxy)]bispropylamine
<b>Inchi:</b>	InChI=1S/C11H26N2O2/c1-11(2,9-14-7-3-5-12)10-15-8-4-6-13/h3-10,12-13H2,1-2H3
<b>InchiKey:</b>	USNBVHYUYWSPNK-UHFFFAOYSA-N
<b>Formula:</b>	C11H26N2O2
<b>SMILES:</b>	CC(C)(COCCCN)COCCCN
<b>Mol. weight [g/mol]:</b>	218.34
<b>CAS:</b>	6921-05-7

## Physical Properties

Property code	Value	Unit	Source
gf	-32.52	kJ/mol	Joback Method
hf	-475.98	kJ/mol	Joback Method
hfus	29.60	kJ/mol	Joback Method
hvap	64.89	kJ/mol	Joback Method
log10ws	-1.23		Crippen Method
logp	0.743		Crippen Method
mcvol	197.550	ml/mol	McGowan Method
pc	2113.89	kPa	Joback Method
tb	637.75	K	Joback Method
tc	827.25	K	Joback Method
tf	427.13	K	Joback Method
vc	0.735	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	558.25	J/molxK	637.75	Joback Method
cpg	574.25	J/molxK	669.33	Joback Method
cpg	589.44	J/molxK	700.92	Joback Method
cpg	603.85	J/molxK	732.50	Joback Method
cpg	617.50	J/molxK	764.09	Joback Method
cpg	630.40	J/molxK	795.67	Joback Method
cpg	642.58	J/molxK	827.25	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6921057&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6921057&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>hvp:</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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