

# 2-Diethylamino-2-methylpropane-1,3-diol, diethyl ether

Other names:	1,3-Diethoxy-N,N-diethyl-2-methylpropan-2-amine
Inchi:	InChI=1S/C12H27NO2/c1-6-13(7-2)12(5,10-14-8-3)11-15-9-4/h6-11H2,1-5H3
InchiKey:	LKZXROCDPXMPFZ-UHFFFAOYSA-N
Formula:	C12H27NO2
SMILES:	CCOCC(C)(COCC)N(CC)CC
Mol. weight [g/mol]:	217.35

## Physical Properties

Property code	Value	Unit	Source
gf	-46.22	kJ/mol	Joback Method
hf	-496.67	kJ/mol	Joback Method
hfus	24.82	kJ/mol	Joback Method
hvap	47.87	kJ/mol	Joback Method
log10ws	-1.70		Crippen Method
logp	2.160		Crippen Method
mcvol	201.660	ml/mol	McGowan Method
pc	1755.07	kPa	Joback Method
rinpol	1239.00		NIST Webbook
rinpol	1239.00		NIST Webbook
tb	528.01	K	Joback Method
tc	696.09	K	Joback Method
tf	304.35	K	Joback Method
vc	0.750	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.48	J/molxK	528.01	Joback Method
cpg	521.23	J/molxK	556.02	Joback Method
cpg	538.23	J/molxK	584.04	Joback Method
cpg	554.51	J/molxK	612.05	Joback Method
cpg	570.08	J/molxK	640.07	Joback Method
cpg	584.97	J/molxK	668.08	Joback Method
cpg	599.18	J/molxK	696.09	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U378724&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378724&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>rinp:</b>	Non-polar retention indices
<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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