

# Isobutylcarbamate, N,N-diethyl

<b>Inchi:</b>	InChI=1S/C9H19NO2/c1-5-10(6-2)9(11)12-7-8(3)4/h8H,5-7H2,1-4H3
<b>InchiKey:</b>	IRUZTBVDTVEQPU-UHFFFAOYSA-N
<b>Formula:</b>	C9H19NO2
<b>SMILES:</b>	CCN(CC)C(=O)OCC(C)C
<b>Mol. weight [g/mol]:</b>	173.25

## Physical Properties

Property code	Value	Unit	Source
gf	-100.68	kJ/mol	Joback Method
hf	-411.64	kJ/mol	Joback Method
hfus	21.35	kJ/mol	Joback Method
hvap	46.44	kJ/mol	Joback Method
log10ws	-1.76		Crippen Method
logp	2.121		Crippen Method
mcvol	155.090	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
rinsol	1162.00		NIST Webbook
tb	493.61	K	Joback Method
tc	669.14	K	Joback Method
tf	280.82	K	Joback Method
vc	0.576	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	356.39	J/mol×K	493.61	Joback Method
cpg	370.77	J/mol×K	522.87	Joback Method
cpg	384.56	J/mol×K	552.12	Joback Method
cpg	397.78	J/mol×K	581.38	Joback Method
cpg	410.42	J/mol×K	610.63	Joback Method
cpg	422.51	J/mol×K	639.89	Joback Method
cpg	434.06	J/mol×K	669.14	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=R392657&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R392657&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>rinpol:</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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