

# Sarcosine, N-isobutyryl-, butyl ester

<b>Inchi:</b>	InChI=1S/C11H21NO3/c1-5-6-7-15-10(13)8-12(4)11(14)9(2)3/h9H,5-8H2,1-4H3
<b>InchiKey:</b>	YLJPFZXZUTLXGHS-UHFFFAOYSA-N
<b>Formula:</b>	C11H21NO3
<b>SMILES:</b>	CCCCOC(=O)CN(C)C(=O)C(C)C
<b>Mol. weight [g/mol]:</b>	215.29

## Physical Properties

Property code	Value	Unit	Source
gf	-212.76	kJ/mol	Joback Method
hf	-565.50	kJ/mol	Joback Method
hfus	28.13	kJ/mol	Joback Method
hvap	57.64	kJ/mol	Joback Method
log10ws	-1.39		Crippen Method
logp	1.444		Crippen Method
mcvol	184.840	ml/mol	McGowan Method
pc	2145.33	kPa	Joback Method
rinpola	1560.00		NIST Webbook
rinpola	1560.00		NIST Webbook
tb	593.24	K	Joback Method
tc	774.01	K	Joback Method
tf	353.29	K	Joback Method
vc	0.694	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	475.99	J/molxK	593.24	Joback Method
cpg	490.85	J/molxK	623.37	Joback Method
cpg	505.00	J/molxK	653.50	Joback Method
cpg	518.47	J/molxK	683.62	Joback Method
cpg	531.26	J/molxK	713.75	Joback Method
cpg	543.40	J/molxK	743.88	Joback Method
cpg	554.90	J/molxK	774.01	Joback Method

# Sources

<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=U321273&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321273&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>rlnpol:</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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