

# Sarcosine, N-isobutyryl-, heptyl ester

<b>Inchi:</b>	InChI=1S/C14H27NO3/c1-5-6-7-8-9-10-18-13(16)11-15(4)14(17)12(2)3/h12H,5-11H2,1-4H3
<b>InchiKey:</b>	AXTPOGGJCSJQTI-UHFFFAOYSA-N
<b>Formula:</b>	C14H27NO3
<b>SMILES:</b>	CCCCCCCOC(=O)CN(C)C(=O)C(C)C
<b>Mol. weight [g/mol]:</b>	257.37

## Physical Properties

Property code	Value	Unit	Source
gf	-187.50	kJ/mol	Joback Method
hf	-627.42	kJ/mol	Joback Method
hfus	35.90	kJ/mol	Joback Method
hvap	64.31	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.614		Crippen Method
mvol	227.110	ml/mol	McGowan Method
pc	1670.06	kPa	Joback Method
rinpol	1855.00		NIST Webbook
rinpol	1855.00		NIST Webbook
tb	661.88	K	Joback Method
tc	839.22	K	Joback Method
tf	387.10	K	Joback Method
vc	0.862	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	633.58	J/mol×K	661.88	Joback Method
cpg	649.96	J/mol×K	691.44	Joback Method
cpg	665.54	J/mol×K	720.99	Joback Method
cpg	680.34	J/mol×K	750.55	Joback Method
cpg	694.38	J/mol×K	780.11	Joback Method
cpg	707.67	J/mol×K	809.66	Joback Method
cpg	720.24	J/mol×K	839.22	Joback Method

# Sources

<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=U321274&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321274&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>rlnol:</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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