

# Sarcosine, N-valeryl-, heptadecyl ester

<b>Inchi:</b>	InChI=1S/C25H49NO3/c1-4-6-8-9-10-11-12-13-14-15-16-17-18-19-20-22-29-25(28)23-2
<b>InchiKey:</b>	RKAAXXKJRLMTRO-UHFFFAOYSA-N
<b>Formula:</b>	C25H49NO3
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)CCCC
<b>Mol. weight [g/mol]:</b>	411.66

## Physical Properties

Property code	Value	Unit	Source
gf	-92.44	kJ/mol	Joback Method
hf	-849.18	kJ/mol	Joback Method
hfus	67.91	kJ/mol	Joback Method
hvap	89.19	kJ/mol	Joback Method
log10ws	-7.50		Crippen Method
logp	7.050		Crippen Method
mvol	382.100	ml/mol	McGowan Method
pc	811.22	kPa	Joback Method
rinpol	3120.00		NIST Webbook
rinpol	3120.00		NIST Webbook
tb	914.00	K	Joback Method
tc	1122.09	K	Joback Method
tf	526.07	K	Joback Method
vc	1.484	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1293.43	J/mol×K	914.00	Joback Method
cpg	1314.73	J/mol×K	948.68	Joback Method
cpg	1334.61	J/mol×K	983.36	Joback Method
cpg	1353.15	J/mol×K	1018.05	Joback Method
cpg	1370.40	J/mol×K	1052.73	Joback Method
cpg	1386.43	J/mol×K	1087.41	Joback Method
cpg	1401.30	J/mol×K	1122.09	Joback Method

# Sources

<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.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=U321570&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321570&amp;Units=SI</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>rinpola:</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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