

# Sarcosine, N-(1-naphthoyl)-, heptyl ester

<b>Inchi:</b>	InChI=1S/C21H27NO3/c1-3-4-5-6-9-15-25-20(23)16-22(2)21(24)19-14-10-12-17-11-7-8-
<b>InchiKey:</b>	ICVCDYFXAFSJKS-UHFFFAOYSA-N
<b>Formula:</b>	C21H27NO3
<b>SMILES:</b>	CCCCCCCOC(=O)CN(C)C(=O)c1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	341.44

## Physical Properties

Property code	Value	Unit	Source
gf	83.31	kJ/mol	Joback Method
hf	-350.49	kJ/mol	Joback Method
hfus	48.22	kJ/mol	Joback Method
hvap	84.86	kJ/mol	Joback Method
log10ws	-5.63		Crippen Method
logp	4.425		Crippen Method
mvol	282.520	ml/mol	McGowan Method
pc	1518.75	kPa	Joback Method
rinpol	2850.00		NIST Webbook
rinpol	2850.00		NIST Webbook
tb	873.12	K	Joback Method
tc	1085.62	K	Joback Method
tf	552.63	K	Joback Method
vc	1.073	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	874.82	J/mol×K	873.12	Joback Method
cpg	890.08	J/mol×K	908.54	Joback Method
cpg	904.32	J/mol×K	943.95	Joback Method
cpg	917.62	J/mol×K	979.37	Joback Method
cpg	930.04	J/mol×K	1014.78	Joback Method
cpg	941.68	J/mol×K	1050.20	Joback Method
cpg	952.59	J/mol×K	1085.62	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=U321405&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321405&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>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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