

# Sarcosine, N-(4-butylbenzoyl)-, decyl ester

<b>Inchi:</b>	InChI=1S/C24H39NO3/c1-4-6-8-9-10-11-12-13-19-28-23(26)20-25(3)24(27)22-17-15-21
<b>InchiKey:</b>	GAIISJDUDWUPAY-UHFFFAOYSA-N
<b>Formula:</b>	C24H39NO3
<b>SMILES:</b>	CCCCCCCCCOC(=O)CN(C)C(=O)c1ccc(CCCC)cc1
<b>Mol. weight [g/mol]:</b>	389.57

## Physical Properties

Property code	Value	Unit	Source
gf	1.92	kJ/mol	Joback Method
hf	-603.48	kJ/mol	Joback Method
hfus	58.98	kJ/mol	Joback Method
hvap	89.90	kJ/mol	Joback Method
log10ws	-6.72		Crippen Method
logp	5.785		Crippen Method
mvol	344.250	ml/mol	McGowan Method
pc	1041.25	kPa	Joback Method
rinpol	3107.00		NIST Webbook
rinpol	3107.00		NIST Webbook
tb	922.78	K	Joback Method
tc	1130.50	K	Joback Method
tf	553.74	K	Joback Method
vc	1.319	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1132.85	J/mol×K	922.78	Joback Method
cpg	1150.50	J/mol×K	957.40	Joback Method
cpg	1166.90	J/mol×K	992.02	Joback Method
cpg	1182.11	J/mol×K	1026.64	Joback Method
cpg	1196.19	J/mol×K	1061.26	Joback Method
cpg	1209.20	J/mol×K	1095.88	Joback Method
cpg	1221.19	J/mol×K	1130.50	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=U321139&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321139&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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