

# Sarcosine, N-(4-ethylbenzoyl)-, isohexyl ester

<b>Inchi:</b>	InChI=1S/C18H27NO3/c1-5-15-8-10-16(11-9-15)18(21)19(4)13-17(20)22-12-6-7-14(2)3/
<b>InchiKey:</b>	ABDUAGNIOWPREJ-UHFFFAOYSA-N
<b>Formula:</b>	C18H27NO3
<b>SMILES:</b>	CCc1ccc(C(=O)N(C)CC(=O)OCCCC(C)C)cc1
<b>Mol. weight [g/mol]:</b>	305.41

## Physical Properties

Property code	Value	Unit	Source
gf	-51.04	kJ/mol	Joback Method
hf	-484.92	kJ/mol	Joback Method
hfus	39.91	kJ/mol	Joback Method
hvap	76.16	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.300		Crippen Method
mvol	259.710	ml/mol	McGowan Method
pc	1580.97	kPa	Joback Method
rinsol	2361.00		NIST Webbook
tb	785.06	K	Joback Method
tc	986.20	K	Joback Method
tf	471.12	K	Joback Method
vc	0.978	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	774.39	J/mol×K	785.06	Joback Method
cpg	790.71	J/mol×K	818.58	Joback Method
cpg	805.97	J/mol×K	852.11	Joback Method
cpg	820.20	J/mol×K	885.63	Joback Method
cpg	833.44	J/mol×K	919.16	Joback Method
cpg	845.72	J/mol×K	952.68	Joback Method
cpg	857.09	J/mol×K	986.20	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=U321232&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321232&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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