

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

<b>Inchi:</b>	InChI=1S/C19H29NO3/c1-4-6-7-8-9-14-23-18(21)15-20(3)19(22)17-12-10-16(5-2)11-13-
<b>InchiKey:</b>	WEYAQRMBUKYARA-UHFFFAOYSA-N
<b>Formula:</b>	C19H29NO3
<b>SMILES:</b>	CCCCCCCOC(=O)CN(C)C(=O)c1ccc(CC)cc1
<b>Mol. weight [g/mol]:</b>	319.44

## Physical Properties

Property code	Value	Unit	Source
gf	-40.18	kJ/mol	Joback Method
hf	-500.28	kJ/mol	Joback Method
hfus	46.02	kJ/mol	Joback Method
hvap	78.77	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	3.835		Crippen Method
mcvol	273.800	ml/mol	McGowan Method
pc	1457.90	kPa	Joback Method
rinsol	2494.00		NIST Webbook
tb	808.38	K	Joback Method
tc	1006.82	K	Joback Method
tf	497.39	K	Joback Method
vc	1.040	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	831.73	J/mol×K	808.38	Joback Method
cpg	848.10	J/mol×K	841.45	Joback Method
cpg	863.41	J/mol×K	874.53	Joback Method
cpg	877.70	J/mol×K	907.60	Joback Method
cpg	891.01	J/mol×K	940.67	Joback Method
cpg	903.38	J/mol×K	973.74	Joback Method
cpg	914.85	J/mol×K	1006.82	Joback Method

# Sources

<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>
<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=U321234&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321234&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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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