

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

<b>Inchi:</b>	InChI=1S/C15H21NO3/c1-4-10-19-14(17)11-16(3)15(18)13-8-6-12(5-2)7-9-13/h6-9H,4-5
<b>InchiKey:</b>	KFPREKDACHFDAL-UHFFFAOYSA-N
<b>Formula:</b>	C15H21NO3
<b>SMILES:</b>	CCCOC(=O)CN(C)C(=O)c1ccc(CC)cc1
<b>Mol. weight [g/mol]:</b>	263.33

## Physical Properties

Property code	Value	Unit	Source
gf	-73.86	kJ/mol	Joback Method
hf	-417.72	kJ/mol	Joback Method
hfus	35.66	kJ/mol	Joback Method
hvap	69.87	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	2.274		Crippen Method
mvol	217.440	ml/mol	McGowan Method
pc	2001.91	kPa	Joback Method
rinpol	2108.00		NIST Webbook
rinpol	2108.00		NIST Webbook
tb	716.86	K	Joback Method
tc	919.80	K	Joback Method
tf	452.31	K	Joback Method
vc	0.816	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	606.12	J/mol×K	716.86	Joback Method
cpg	621.39	J/mol×K	750.68	Joback Method
cpg	635.70	J/mol×K	784.51	Joback Method
cpg	649.08	J/mol×K	818.33	Joback Method
cpg	661.55	J/mol×K	852.15	Joback Method
cpg	673.14	J/mol×K	885.98	Joback Method
cpg	683.89	J/mol×K	919.80	Joback Method

# Sources

<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=U321228&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321228&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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