

# Sarcosine, N-(3-fluorobenzoyl)-, pentyl ester

<b>Inchi:</b>	InChI=1S/C15H20FNO3/c1-3-4-5-9-20-14(18)11-17(2)15(19)12-7-6-8-13(16)10-12/h6-8,
<b>InchiKey:</b>	MZFQJMQKRBRTM-UHFFFAOYSA-N
<b>Formula:</b>	C15H20FNO3
<b>SMILES:</b>	CCCCCOC(=O)CN(C)C(=O)c1cccc(F)c1
<b>Mol. weight [g/mol]:</b>	281.32

## Physical Properties

Property code	Value	Unit	Source
gf	-268.67	kJ/mol	Joback Method
hf	-613.83	kJ/mol	Joback Method
hfus	38.74	kJ/mol	Joback Method
hvap	69.05	kJ/mol	Joback Method
log10ws	-3.32		Crippen Method
logp	2.631		Crippen Method
mvol	219.210	ml/mol	McGowan Method
pc	1923.67	kPa	Joback Method
rinpol	2059.00		NIST Webbook
rinpol	2059.00		NIST Webbook
tb	716.13	K	Joback Method
tc	911.96	K	Joback Method
tf	452.90	K	Joback Method
vc	0.834	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	613.95	J/molxK	716.13	Joback Method
cpg	628.62	J/molxK	748.77	Joback Method
cpg	642.38	J/molxK	781.41	Joback Method
cpg	655.27	J/molxK	814.05	Joback Method
cpg	667.30	J/molxK	846.68	Joback Method
cpg	678.50	J/molxK	879.32	Joback Method
cpg	688.92	J/molxK	911.96	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=U321387&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321387&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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