

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

Inchi:	InChI=1S/C26H42FNO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-20-31-25(29)22-28(2)26
InchiKey:	WURHZBUGJVDQPD-UHFFFAOYSA-N
Formula:	C26H42FNO3
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)c1cccc(F)c1
Mol. weight [g/mol]:	435.62

## Physical Properties

Property code	Value	Unit	Source
gf	-176.05	kJ/mol	Joback Method
hf	-840.87	kJ/mol	Joback Method
hfus	67.23	kJ/mol	Joback Method
hvap	93.54	kJ/mol	Joback Method
log10ws	-7.93		Crippen Method
logp	6.922		Crippen Method
mcvol	374.200	ml/mol	McGowan Method
pc	898.56	kPa	Joback Method
tb	967.81	K	Joback Method
tc	1186.20	K	Joback Method
tf	576.87	K	Joback Method
vc	1.450	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1264.50	J/molxK	967.81	Joback Method
cpg	1282.81	J/molxK	1004.21	Joback Method
cpg	1299.73	J/molxK	1040.61	Joback Method
cpg	1315.33	J/molxK	1077.01	Joback Method
cpg	1329.70	J/molxK	1113.41	Joback Method
cpg	1342.91	J/molxK	1149.81	Joback Method
cpg	1355.04	J/molxK	1186.20	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321397&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321397&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>
<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>

# 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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/66-452-7/Sarcosine-N-3-fluorobenzoyl-hexadecyl-ester.pdf>

Generated by Cheméo on 2023-06-05 20:54:19.108475775 +0000 UTC m=+217744.184237490.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.