

# Sarcosine, N-(2,3,4-trifluorobenzoyl)-, pentadecyl ester

<b>Inchi:</b>	InChI=1S/C25H38F3NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-18-32-22(30)19-29(2)25(3)
<b>InchiKey:</b>	ZLURZNPOFKXDHP-UHFFFAOYSA-N
<b>Formula:</b>	C25H38F3NO3
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	457.57

## Physical Properties

Property code	Value	Unit	Source
gf	-593.35	kJ/mol	Joback Method
hf	-1235.39	kJ/mol	Joback Method
hfus	70.03	kJ/mol	Joback Method
hvap	91.00	kJ/mol	Joback Method
log10ws	-8.17		Crippen Method
logp	6.810		Crippen Method
mvol	363.650	ml/mol	McGowan Method
pc	885.77	kPa	Joback Method
rinpol	3127.00		NIST Webbook
rinpol	3127.00		NIST Webbook
tb	953.43	K	Joback Method
tc	1170.27	K	Joback Method
tf	591.82	K	Joback Method
vc	1.429	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1214.77	J/molxK	953.43	Joback Method
cpg	1232.41	J/molxK	989.57	Joback Method
cpg	1248.65	J/molxK	1025.71	Joback Method
cpg	1263.57	J/molxK	1061.85	Joback Method
cpg	1277.23	J/molxK	1097.99	Joback Method
cpg	1289.68	J/molxK	1134.13	Joback Method
cpg	1301.00	J/molxK	1170.27	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=U321486&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321486&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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