

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

<b>Inchi:</b>	InChI=1S/C17H22F3NO3/c1-3-4-5-6-7-10-24-14(22)11-21(2)17(23)12-8-9-13(18)16(20)1
<b>InchiKey:</b>	LWLPJUOBCRLQGF-UHFFFAOYSA-N
<b>Formula:</b>	C17H22F3NO3
<b>SMILES:</b>	CCCCCCCOC(=O)CN(C)C(=O)c1ccc(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	345.36

## Physical Properties

Property code	Value	Unit	Source
gf	-660.71	kJ/mol	Joback Method
hf	-1070.27	kJ/mol	Joback Method
hfus	49.31	kJ/mol	Joback Method
hvap	73.19	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	3.690		Crippen Method
mcvol	250.930	ml/mol	McGowan Method
pc	1488.44	kPa	Joback Method
rinpol	2186.00		NIST Webbook
rinpol	2186.00		NIST Webbook
tb	770.39	K	Joback Method
tc	956.18	K	Joback Method
tf	501.66	K	Joback Method
vc	0.982	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	738.45	J/mol×K	770.39	Joback Method
cpg	752.69	J/mol×K	801.35	Joback Method
cpg	766.06	J/mol×K	832.32	Joback Method
cpg	778.60	J/mol×K	863.28	Joback Method
cpg	790.32	J/mol×K	894.25	Joback Method
cpg	801.25	J/mol×K	925.21	Joback Method
cpg	811.41	J/mol×K	956.18	Joback Method

# Sources

<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=U321479&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321479&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.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>

# 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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

Latest version available from:

<https://www.chemeo.com/cid/123-970-8/Sarcosine-N-2-3-4-trifluorobenzoyl-heptyl-ester.pdf>

Generated by Cheméo on 2024-04-26 19:22:28.394268699 +0000 UTC m=+16448597.314846063.

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