

Sarcosine, n-heptafluorobutyryl-, heptadecyl ester

Inchi:	InChI=1S/C24H40F7NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-35-20(33)19-32
InchiKey:	IRDIAXYVOWZUQZ-UHFFFAOYSA-N
Formula:	C24H40F7NO3
SMILES:	CCCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	523.57

Physical Properties

Property code	Value	Unit	Source
gf	-1456.01	kJ/mol	Joback Method
hf	-2227.56	kJ/mol	Joback Method
hfus	64.64	kJ/mol	Joback Method
hvap	77.36	kJ/mol	Joback Method
log10ws	-8.37		Crippen Method
logp	7.692		Crippen Method
mvol	380.400	ml/mol	McGowan Method
pc	741.24	kPa	Joback Method
rinpol	2529.00		NIST Webbook
rinpol	2529.00		NIST Webbook
tb	876.32	K	Joback Method
tc	1080.20	K	Joback Method
tf	526.19	K	Joback Method
vc	1.520	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1279.93	J/molxK	876.32	Joback Method
cpg	1299.60	J/molxK	910.30	Joback Method
cpg	1318.05	J/molxK	944.28	Joback Method
cpg	1335.40	J/molxK	978.26	Joback Method
cpg	1351.77	J/molxK	1012.24	Joback Method
cpg	1367.26	J/molxK	1046.22	Joback Method
cpg	1382.00	J/molxK	1080.20	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321268&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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