Sarcosine, N-pentafluoropropionyl-, tetradecyl ester

Inchi: InChI=1S/C20H34F5NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-29-17(27)16-26(2)18(28)1

InchiKey: BJTCANRDIUARQY-UHFFFAOYSA-N

Formula: C20H34F5NO3

SMILES: CCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)C(F)(F)C(F)(F)F

Mol. weight [g/mol]: 431.49

Physical Properties

Property code	Value	Unit	Source
hfus	55.53	kJ/mol	Joback Method
hvap	100.62	kJ/mol	Cheméo Relay (1.0)
log10ws	-6.37		Cheméo Relay (1.0)
logp	5.887		Crippen Method
mcvol	320.500	ml/mol	McGowan Method
rinpol	2227.00		NIST Webbook
tb	587.12	K	Cheméo Relay (1.0)
tf	287.02	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1020.15	J/mol×K	789.49	Joback Method
cpg	1037.43	J/mol×K	819.03	Joback Method
cpg	1053.73	J/mol×K	848.56	Joback Method
cpg	1069.11	J/mol×K	878.10	Joback Method
cpg	1083.61	J/mol×K	907.63	Joback Method
cpg	1097.31	J/mol×K	937.17	Joback Method
cpg	1110.25	J/mol×K	966.70	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U320942&Units=SI

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point