Sarcosine, n-pentafluorobenzoyl-, isobutyl ester

Inchi: InChI=1S/C14H14F5NO3/c1-6(2)5-23-7(21)4-20(3)14(22)8-9(15)11(17)13(19)12(18)10(8

InchiKey: CWQBURVXWAFZDT-UHFFFAOYSA-N

Formula: C14H14F5NO3

SMILES: CC(C)COC(=O)CN(C)C(=O)c1c(F)c(F)c(F)c(F)c1F

Mol. weight [g/mol]: 339.26

Physical Properties

Property code	Value	Unit	Source
gf	-1097.29	kJ/mol	Joback Method
hf	-1428.79	kJ/mol	Joback Method
hfus	43.40	kJ/mol	Joback Method
hvap	65.82	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	2.653		Crippen Method
mcvol	212.200	ml/mol	McGowan Method
pc	1713.19	kPa	Joback Method
rinpol	1737.00		NIST Webbook
rinpol	1737.00		NIST Webbook
tb	709.81	K	Joback Method
tc	888.84	K	Joback Method
tf	479.07	K	Joback Method
vc	0.844	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	588.93	J/mol×K	709.81	Joback Method
cpg	600.96	J/mol×K	739.65	Joback Method
cpg	612.31	J/mol×K	769.49	Joback Method
cpg	623.01	J/mol×K	799.32	Joback Method
cpg	633.05	J/mol×K	829.16	Joback Method
cpg	642.44	J/mol×K	859.00	Joback Method
cpg	651.20	J/mol×K	888.84	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321543&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
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
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume