N-[[4-[[(2,2,3,3,3-Pentafluoropropionyl)amino]met

Inchi: InChI=1S/C14H10F10N2O2/c15-11(16,13(19,20)21)9(27)25-5-7-1-2-8(4-3-7)6-26-10(28)
InchiKey: RXLFOHGGELIAAR-UHFFFAOYSA-N
Formula: C14H10F10N2O2
SMILES: O=C(NCc1ccc(CNC(=O)C(F)(F)C(F)(F)F)cc1)C(F)(F)C(F)(F)F
Mol. weight [g/mol]: 428.23

Physical Properties

Property code	Value	Unit	Source
gf	-1846.02	kJ/mol	Joback Method
hf	-2221.55	kJ/mol	Joback Method
hfus	40.21	kJ/mol	Joback Method
hvap	62.71	kJ/mol	Joback Method
log10ws	-5.62		Crippen Method
logp	3.314		Crippen Method
mcvol	225.160	ml/mol	McGowan Method
pc	1641.76	kPa	Joback Method
rinpol	1771.00		NIST Webbook
tb	739.24	K	Joback Method
tc	918.77	K	Joback Method
tf	507.24	K	Joback Method
vc	0.929	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	681.60	J/mol×K	739.24	Joback Method
cpg	691.70	J/mol×K	769.16	Joback Method
cpg	701.00	J/mol×K	799.08	Joback Method
cpg	709.56	J/mol×K	829.01	Joback Method
cpg	717.47	J/mol×K	858.93	Joback Method
cpg	724.81	J/mol×K	888.85	Joback Method
cpg	731.66	J/mol×K	918.77	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373222&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