Hexafluoroglutaramide

Inchi: InChI=1S/C5H4F6N2O2/c6-3(7,1(12)14)5(10,11)4(8,9)2(13)15/h(H2,12,14)(H2,13,15)
InchiKey: WBOGURVAQVCKGX-UHFFFAOYSA-N
Formula: C5H4F6N2O2
SMILES: NC(=O)C(F)(F)C(F)(F)C(F)(F)C(N)=O
Mol. weight [g/mol]: 238.09

Physical Properties

Property code	Value	Unit	Source
hfus	18.54	kJ/mol	Joback Method
ie	10.44	eV	Cheméo Relay (1.0)
logp	-0.137		Crippen Method
mcvol	115.030	ml/mol	McGowan Method
tb	446.11	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.45	J/mol×K	552.53	Joback Method
cpg	319.43	J/mol×K	584.34	Joback Method
cpg	326.64	J/mol×K	616.15	Joback Method
cpg	333.14	J/mol×K	647.96	Joback Method
cpg	338.97	J/mol×K	679.77	Joback Method
cpg	344.21	J/mol×K	711.58	Joback Method
cpg	348.90	J/mol×K	743.39	Joback Method

Sources

Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C507686&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):	

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature