Glycine, N-trifluoroacetyl-, 2,2,3,3,3-pentafluoropropyl ester

Inchi: InChI=1S/C7H5F8NO3/c8-5(9,7(13,14)15)2-19-3(17)1-16-4(18)6(10,11)12/h1-2H2,(H,16

InchiKey: CFGMCEHZRLPVKE-UHFFFAOYSA-N

Formula: C7H5F8NO3

SMILES: O=C(CNC(=O)C(F)(F)F)OCC(F)(F)C(F)(F)F

Mol. weight [g/mol]: 303.11

Physical Properties

Property code	Value	Unit	Source
gf	-1815.35	kJ/mol	Joback Method
hf	-2086.85	kJ/mol	Joback Method
hfus	25.77	kJ/mol	Joback Method
hvap	43.09	kJ/mol	Joback Method
log10ws	-2.22		Crippen Method
logp	1.406		Crippen Method
mcvol	142.640	ml/mol	McGowan Method
pc	2331.52	kPa	Joback Method
rinpol	961.00		NIST Webbook
tb	524.36	K	Joback Method
tc	679.91	K	Joback Method
tf	355.38	K	Joback Method
vc	0.604	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	376.84	J/mol×K	524.36	Joback Method
cpg	386.18	J/mol×K	550.28	Joback Method
cpg	394.91	J/mol×K	576.21	Joback Method
cpg	403.05	J/mol×K	602.13	Joback Method
cpg	410.63	J/mol×K	628.06	Joback Method
cpg	417.69	J/mol×K	653.98	Joback Method
cpg	424.24	J/mol×K	679.91	Joback Method

Sources

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=U352349&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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