Benzamide, N-tetrahydrofurfuryl-2,3,4,5,6-pentafluoro-

Inchi: InChI=1S/C12H10F5NO2/c13-7-6(8(14)10(16)11(17)9(7)15)12(19)18-4-5-2-1-3-20-5/h5H

InchiKey: WGMMGDGLWHOERW-UHFFFAOYSA-N

Formula: C12H10F5NO2

SMILES: O=C(NCC1CCCO1)c1c(F)c(F)c(F)c(F)c1F

Mol. weight [g/mol]: 295.21

Physical Properties

Property code	Value	Unit	Source
gf	-948.73	kJ/mol	Joback Method
hf	-1223.01	kJ/mol	Joback Method
hfus	42.94	kJ/mol	Joback Method
hvap	61.76	kJ/mol	Joback Method
log10ws	-4.24		Crippen Method
logp	2.291		Crippen Method
mcvol	171.590	ml/mol	McGowan Method
pc	2284.95	kPa	Joback Method
rinpol	1674.00		NIST Webbook
rinpol	1674.00		NIST Webbook
tb	668.16	K	Joback Method
tc	861.39	K	Joback Method
tf	457.03	K	Joback Method
vc	0.693	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	475.36	J/mol×K	668.16	Joback Method
cpg	487.61	J/mol×K	700.36	Joback Method
cpg	499.13	J/mol×K	732.57	Joback Method
cpg	509.93	J/mol×K	764.77	Joback Method
cpg	520.03	J/mol×K	796.98	Joback Method
cpg	529.45	J/mol×K	829.18	Joback Method
cpg	538.20	J/mol×K	861.39	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U307374&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