2-(Bis(2,2,3,3,3-pentafluoropropanoyl)amino)pher
2,2,3,3,3-pentafluoropropanoate

Other names: o-Aminophenol, N,N,O-tris(pentafluoropropionyl)-

Inchi: InChI=1S/C15H4F15NO4/c16-10(17,13(22,23)24)7(32)31(8(33)11(18,19)14(25,26)27)5-3

InchiKey: PJQWHOYZRDQXEZ-UHFFFAOYSA-N

Formula: C15H4F15NO4

SMILES: O=C(Oc1ccccc1N(C(=O)C(F)(F)C(F)(F)F)C(=O)C(F)(F)C(F)(F)F)C(F)(F)C(F)(F)F

Mol. weight [g/mol]: 547.17

Physical Properties

Property code	Value	Unit	Source
gf	-3107.89	kJ/mol	Joback Method
hf	-3524.45	kJ/mol	Joback Method
hfus	38.98	kJ/mol	Joback Method
hvap	56.58	kJ/mol	Joback Method
log10ws	-6.27		Crippen Method
logp	5.044		Crippen Method
mcvol	245.560	ml/mol	McGowan Method
pc	1338.82	kPa	Joback Method
rinpol	1141.00		NIST Webbook
rinpol	1141.00		NIST Webbook
tb	740.40	K	Joback Method
tc	911.42	K	Joback Method
tf	525.61	K	Joback Method
vc	1.026	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	753.71	J/mol×K	740.40	Joback Method
cpg	762.37	J/mol×K	768.90	Joback Method
cpg	770.22	J/mol×K	797.41	Joback Method
cpg	777.33	J/mol×K	825.91	Joback Method
cpg	783.80	J/mol×K	854.41	Joback Method
cpg	789.71	J/mol×K	882.92	Joback Method
cpg	795.16	J/mol×K	911.42	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373275&Units=SI

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