

Octopamine, tri-PFP

Other names:	Octopamine, N,O,O-(tris-PFP)- (.+/-)-Octopamine, N,O,O'-tris(pentafluoropropionyl)-
Inchi:	4-(2-[(2,2,3,3,3-pentafluoropropanoyl)amino]1-[2,2,3,3,3-pentafluoropropanoyloxy]ethyl)benzene
InchiKey:	NAEIJMBSQQFJIL-UHFFFAOYSA-N
Formula:	C17H8F15NO5
SMILES:	O=C(NCC(OC(=O)C(F)(F)C(F)(F)F)c1ccc(OC(=O)C(F)(F)C(F)(F)F)cc1)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	591.23
CAS:	62237-94-9

Physical Properties

Property code	Value	Unit	Source
gf	-3219.88	kJ/mol	Joback Method
hf	-3717.29	kJ/mol	Joback Method
hfus	43.90	kJ/mol	Joback Method
hvap	67.45	kJ/mol	Joback Method
log10ws	-6.73		Crippen Method
logp	4.885		Crippen Method
mcvol	279.610	ml/mol	McGowan Method
pc	1173.63	kPa	Joback Method
rinsol	1494.00		NIST Webbook
rinsol	1494.00		NIST Webbook
tb	845.87	K	Joback Method
tc	1035.59	K	Joback Method
tf	575.57	K	Joback Method
vc	1.167	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	895.03	J/molxK	845.87	Joback Method
cpg	903.74	J/molxK	877.49	Joback Method
cpg	911.68	J/molxK	909.11	Joback Method
cpg	918.94	J/molxK	940.73	Joback Method

cpg	925.66	J/mol×K	972.35	Joback Method
cpg	931.93	J/mol×K	1003.97	Joback Method
cpg	937.86	J/mol×K	1035.59	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C62237949&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
mvol:	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

Latest version available from:

<https://www.chemeo.com/cid/112-953-9/Octopamine-tri-PFP.pdf>

Generated by Cheméo on 2024-04-19 01:35:40.284281864 +0000 UTC m=+15779789.204859204.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.