

2-(2-(2-(2-(2-(2-Pentoxy-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy)-ethoxy

InChI: InChI=1S/C23H43F3O10/c1-3-4-21(2)35-19-17-33-15-13-31-11-9-29-7-5-28-6-8-30-10-1
trifluoroacetate
InchiKey: TYPBJNBCIVWXJV-UHFFFAOYSA-N

Formula:

C23H43F3O10

SMILES:

CCCC(C)OCCOCCOCCOCCOCCOCCOCCOCCOCCOC(=O)C(F)(F)F

Mol. weight [g/mol]:

536.58

Physical Properties

Property code	Value	Unit	Source
gf	-1515.17	kJ/mol	Joback Method
hf	-2422.97	kJ/mol	Joback Method
hfus	65.92	kJ/mol	Joback Method
hvap	91.09	kJ/mol	Joback Method
log10ws	-1.79		Crippen Method
logp	2.413		Crippen Method
mcvol	394.640	ml/mol	McGowan Method
pc	761.42	kPa	Joback Method
rinpol	2901.20		NIST Webbook
rinpol	2901.20		NIST Webbook
tb	975.43	K	Joback Method
tc	1220.03	K	Joback Method
tf	588.16	K	Joback Method
vc	1.528	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1373.39	J/molxK	975.43	Joback Method
cpg	1391.50	J/molxK	1016.20	Joback Method
cpg	1406.62	J/molxK	1056.96	Joback Method
cpg	1418.71	J/molxK	1097.73	Joback Method
cpg	1427.70	J/molxK	1138.50	Joback Method
cpg	1433.52	J/molxK	1179.26	Joback Method
cpg	1436.12	J/molxK	1220.03	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=R187896&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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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