2-[2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]etho
2,2,2-trifluoroacetate

Other names: Hexaethylene glycol monomethyl ether, trifluoroacetate
3,6,9,12,15,18-Hexaoxanonadec-1-yl trifluoroacetate

Inchi: InChI=1S/C15H27F3O8/c1-20-2-3-21-4-5-22-6-7-23-8-9-24-10-11-25-12-13-26-14(19)15

InchiKey: XLOFUBHMWAEDHA-UHFFFAOYSA-N

Formula: C15H27F3O8

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

Mol. weight [g/mol]: 392.37

Physical Properties

Property code	Value	Unit	Source
gf	-1370.09	kJ/mol	Joback Method
hf	-1988.13	kJ/mol	Joback Method
hfus	46.35	kJ/mol	Joback Method
hvap	68.85	kJ/mol	Joback Method
log10ws	-0.15		Crippen Method
logp	0.821		Crippen Method
mcvol	270.180	ml/mol	McGowan Method
pc	1248.61	kPa	Joback Method
rinpol	1986.40		NIST Webbook
rinpol	1986.40		NIST Webbook
tb	747.99	K	Joback Method
tc	918.13	K	Joback Method
tf	468.54	K	Joback Method
vc	1.050	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	827.50	J/mol×K	747.99	Joback Method
cpg	843.10	J/mol×K	776.35	Joback Method
cpg	857.83	J/mol×K	804.70	Joback Method
cpg	871.68	J/mol×K	833.06	Joback Method
cpg	884.64	J/mol×K	861.42	Joback Method
cpg	896.67	J/mol×K	889.77	Joback Method

cpg	907.77	J/mol×K	918.13	Joback Method

Sources

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=U351958&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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