2-[2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]etho
2,2,3,3,4,4,4-heptafluorobutanoate

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

Inchi: InChI=1S/C17H27F7O8/c1-26-2-3-27-4-5-28-6-7-29-8-9-30-10-11-31-12-13-32-14(25)15

InchiKey: STLSGBMWDLRPIX-UHFFFAOYSA-N

Formula: C17H27F7O8

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

Mol. weight [g/mol]: 492.38

Physical Properties

Property code	Value	Unit	Source
gf	-2126.81	kJ/mol	Joback Method
hf	-2831.35	kJ/mol	Joback Method
hfus	49.02	kJ/mol	Joback Method
hvap	67.45	kJ/mol	Joback Method
log10ws	-1.62		Crippen Method
logp	2.092		Crippen Method
mcvol	305.440	ml/mol	McGowan Method
pc	998.91	kPa	Joback Method
rinpol	2010.20		NIST Webbook
tb	784.37	K	Joback Method
tc	960.45	K	Joback Method
tf	498.28	K	Joback Method
vc	1.212	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	977.35	J/mol×K	784.37	Joback Method
cpg	993.06	J/mol×K	813.72	Joback Method
cpg	1007.73	J/mol×K	843.06	Joback Method
cpg	1021.36	J/mol×K	872.41	Joback Method
cpg	1033.96	J/mol×K	901.76	Joback Method
cpg	1045.55	J/mol×K	931.11	Joback Method
cpg	1056.12	J/mol×K	960.45	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U352008&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

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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