2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)e
2,2,3,3,4,4,4-heptafluoroabutanoate

Other names: Tridecaethylene glycol monomethyl ether, heptafluorobutyrate
3,6,9,12,15,18,21,24,27,30,33,36,39-Tridecaoxatetracont-1-yl heptafluorobutyrate

Inchi: InChI=1S/C31H55F7O15/c1-40-2-3-41-4-5-42-6-7-43-8-9-44-10-11-45-12-13-46-14-15-4

InchiKey: YFEDJJQKLYBDGS-UHFFFAOYSA-N

Formula: C31H55F7O15

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

Mol. weight [g/mol]: 800.75

Physical Properties

Property code	Value	Unit	Source
gf	-2743.93	kJ/mol	Joback Method
hf	-4045.85	kJ/mol	Joback Method
hfus	93.59	kJ/mol	Joback Method
hvap	115.48	kJ/mol	Joback Method
log10ws	-1.09		Crippen Method
logp	2.208		Crippen Method
mcvol	543.790	ml/mol	McGowan Method
pc	467.09	kPa	Joback Method
tb	1261.63	K	Joback Method
tc	1907.02	K	Joback Method
tf	811.67	K	Joback Method
vc	2.123	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1982.54	J/mol×K	1261.63	Joback Method
cpg	1955.82	J/mol×K	1369.20	Joback Method
cpg	1896.89	J/mol×K	1476.76	Joback Method
cpg	1804.52	J/mol×K	1584.33	Joback Method
cpg	1677.48	J/mol×K	1691.89	Joback Method
cpg	1514.56	J/mol×K	1799.46	Joback Method
cpg	1314.54	J/mol×K	1907.02	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=U352013&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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