2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)e
2,2,3,3,3-pentafluoropropanoate

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

Inchi: InChI=1S/C30H55F5O15/c1-37-2-3-38-4-5-39-6-7-40-8-9-41-10-11-42-12-13-43-14-15-4

InchiKey: MGMADPOYWHTYEH-UHFFFAOYSA-N

Formula: C30H55F5O15

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

Mol. weight [g/mol]: 750.74

Physical Properties

Property code	Value	Unit	Source
gf	-2365.57	kJ/mol	Joback Method
hf	-3624.24	kJ/mol	Joback Method
hfus	92.26	kJ/mol	Joback Method
hvap	116.18	kJ/mol	Joback Method
log10ws	-0.35		Crippen Method
logp	1.573		Crippen Method
mcvol	526.160	ml/mol	McGowan Method
pc	502.72	kPa	Joback Method
tb	1243.44	K	Joback Method
tc	1819.20	K	Joback Method
tf	796.80	K	Joback Method
vc	2.042	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1911.07	J/mol×K	1243.44	Joback Method
cpg	1888.62	J/mol×K	1339.40	Joback Method
cpg	1838.53	J/mol×K	1435.36	Joback Method
cpg	1759.44	J/mol×K	1531.32	Joback Method
cpg	1649.98	J/mol×K	1627.28	Joback Method
cpg	1508.77	J/mol×K	1723.24	Joback Method
cpg	1334.45	J/mol×K	1819.20	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351979&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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