2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)ethox
2,2,3,3,4,4,4-heptafluorobutanoate

Other names: Undecaethylene glycol monomethyl ether, heptafluorobutyrate
3,6,9,12,15,18,21,24,27,30,33-Undecaoxatetratriacont-1-yl heptafluorobutyrate

Inchi: InChI=1S/C27H47F7O13/c1-36-2-3-37-4-5-38-6-7-39-8-9-40-10-11-41-12-13-42-14-15-4

InchiKey: NOLNPPXAZCUTMD-UHFFFAOYSA-N

Formula: C27H47F7O13

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

Mol. weight [g/mol]: 712.64

Physical Properties

Property code	Value	Unit	Source
gf	-2567.61	kJ/mol	Joback Method
hf	-3698.85	kJ/mol	Joback Method
hfus	80.86	kJ/mol	Joback Method
hvap	101.75	kJ/mol	Joback Method
log10ws	-1.24		Crippen Method
logp	2.175		Crippen Method
mcvol	475.690	ml/mol	McGowan Method
pc	564.47	kPa	Joback Method
rinpol	3276.30		NIST Webbook
rinpol	3276.30		NIST Webbook
tb	1125.27	K	Joback Method
tc	1529.53	K	Joback Method
tf	722.13	K	Joback Method
vc	1.863	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1722.04	J/mol×K	1125.27	Joback Method
cpg	1732.38	J/mol×K	1192.65	Joback Method
cpg	1732.84	J/mol×K	1260.02	Joback Method
cpg	1723.23	J/mol×K	1327.40	Joback Method
cpg	1703.36	J/mol×K	1394.78	Joback Method
cpg	1673.06	J/mol×K	1462.16	Joback Method

cpg	1632.13	J/mol×K	1529.53	Joback Method

Sources

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=U352012&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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