2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2,2,3,3,4,4,4-H
2,2,3,3,4,4,4-heptafluorobutanoate

Other names: 44,44-dihydroxy-3,6,9,12,15,18,21,24,27,30,33,36,39,42-trideca
Tetradecaethylene glycol, bis(heptafluorobutyrate)
heptafluorobutyrate

Inchi: InChI=1S/C36H56F14O17/c37-31(38,33(41,42)35(45,46)47)29(51)66-27-25-64-23-21-62

InchiKey: VPUVABCJMJQWMK-UHFFFAOYSA-N

Formula: C36H56F14O17

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

Mol. weight [g/mol]: 1026.80

Physical Properties

Property code	Value	Unit	Source
gf	-4290.90	kJ/mol	Joback Method
hf	-5792.87	kJ/mol	Joback Method
hfus	108.65	kJ/mol	Joback Method
hvap	126.16	kJ/mol	Joback Method
log10ws	-3.33		Crippen Method
logp	3.954		Crippen Method
mcvol	634.070	ml/mol	McGowan Method
pc	353.46	kPa	Joback Method
tb	1437.52	K	Joback Method
tc	2924.38	K	Joback Method
tf	951.57	K	Joback Method
vc	2.519	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2280.65	J/mol×K	1437.52	Joback Method
cpg	2111.07	J/mol×K	1685.33	Joback Method
cpg	1812.16	J/mol×K	1933.14	Joback Method
cpg	1391.83	J/mol×K	2180.95	Joback Method
cpg	858.03	J/mol×K	2428.76	Joback Method
cpg	218.69	J/mol×K	2676.57	Joback Method
cpg	-518.24	J/mol×K	2924.38	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U352022&Units=SI

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