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

Other names: 38,38,39,39,40,40,40-heptafluoro-3,6,9,12,15,18,21,24,27,30,33,36-dodecaoxate
Dodecaethylene glycol, bis(heptafluorobutyrate)
Heptafluorobutyrate

Inchi: InChI=1S/C32H48F14O15/c33-27(34,29(37,38)31(41,42)43)25(47)60-23-21-58-19-17-56

InchiKey: GFGXXNVRLUCZBE-UHFFFAOYSA-N

Formula: C32H48F14O15

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

Mol. weight [g/mol]: 938.69

Physical Properties

Property code	Value	Unit	Source
gf	-4114.58	kJ/mol	Joback Method
hf	-5445.87	kJ/mol	Joback Method
hfus	95.91	kJ/mol	Joback Method
hvap	112.43	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	3.921		Crippen Method
mcvol	565.970	ml/mol	McGowan Method
pc	416.32	kPa	Joback Method
rinpol	3406.10		NIST Webbook
tb	1301.16	K	Joback Method
tc	2153.55	K	Joback Method
tf	862.03	K	Joback Method
vc	2.260	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2067.70	J/mol×K	1301.16	Joback Method
cpg	2042.10	J/mol×K	1443.23	Joback Method
cpg	1982.11	J/mol×K	1585.29	Joback Method
cpg	1890.27	J/mol×K	1727.36	Joback Method
cpg	1769.16	J/mol×K	1869.42	Joback Method
cpg	1621.33	J/mol×K	2011.49	Joback Method
cpg	1449.35	J/mol×K	2153.55	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U352023&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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