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

Other names: 35,35,36,36,37,37,37-Heptafluoro-34-oxo-3,6,9,12,15,18,21,24,27,30,33-undecaoxaheptatriacontyl heptafluorobutyrate; Undecaethylene glycol, bis(heptafluorobutyrate)

Inchi: InChI=1S/C30H44F14O14/c31-25(32,27(35,36)29(39,40)41)23(45)57-21-19-55-17-15-53

InchiKey: ZOBZWVZKYTWGFT-UHFFFAOYSA-N

Formula: C30H44F14O14

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

Mol. weight [g/mol]: 894.64

Physical Properties

Property code	Value	Unit	Source
gf	-4026.42	kJ/mol	Joback Method
hf	-5272.37	kJ/mol	Joback Method
hfus	89.55	kJ/mol	Joback Method
hvap	105.57	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.905		Crippen Method
mcvol	531.920	ml/mol	McGowan Method
pc	454.24	kPa	Joback Method
rinpol	3164.90		NIST Webbook
tb	1232.98	K	Joback Method
tc	1892.34	K	Joback Method
tf	817.26	K	Joback Method
vc	2.130	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1941.76	J/mol×K	1232.98	Joback Method
cpg	1941.05	J/mol×K	1342.87	Joback Method
cpg	1921.64	J/mol×K	1452.77	Joback Method
cpg	1884.95	J/mol×K	1562.66	Joback Method
cpg	1832.43	J/mol×K	1672.55	Joback Method
cpg	1765.51	J/mol×K	1782.45	Joback Method
cpg	1685.61	J/mol×K	1892.34	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=U352033&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