2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2,2,3,3,3-Pentafluoro
2,2,3,3,3-pentafluoropropanoate

Other names: 3,6,9,12,15,18,21,24,27,30,33-Undecaoxahexatriacon
Undecaethylene glycol, bis(pentafluoropropionate)
pentafluoropropionate

Inchi: InChI=1S/C28H44F10O14/c29-25(30,27(33,34)35)23(39)51-21-19-49-17-15-47-13-11-45

InchiKey: QUCDVOGRGYQSPP-UHFFFAOYSA-N

Formula: C28H44F10O14

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

Mol. weight [g/mol]: 794.62

Physical Properties

Property code	Value	Unit	Source
gf	-3269.70	kJ/mol	Joback Method
hf	-4429.15	kJ/mol	Joback Method
hfus	86.87	kJ/mol	Joback Method
hvap	106.98	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	2.634		Crippen Method
mcvol	496.660	ml/mol	McGowan Method
pc	526.53	kPa	Joback Method
rinpol	3138.80		NIST Webbook
rinpol	3138.80		NIST Webbook
tb	1196.60	K	Joback Method
tc	1721.20	K	Joback Method
tf	787.52	K	Joback Method
vc	1.968	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1795.29	J/mol×K	1196.60	Joback Method
cpg	1794.42	J/mol×K	1284.03	Joback Method
cpg	1777.96	J/mol×K	1371.47	Joback Method
cpg	1745.86	J/mol×K	1458.90	Joback Method
cpg	1698.08	J/mol×K	1546.33	Joback Method
cpg	1634.59	J/mol×K	1633.76	Joback Method

cpg	1555.34	J/mol×K	1721.20	Joback Method

Sources

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=U351993&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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