

2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)ethoxy

Other names: Undecyl ethylene glycol monomethyl ether, pentafluoropropionate
2,2,3,3,3-pentafluoropropanoate 3,6,9,12,15,18,21,24,27,30,33-Undecaoxatetatriacont-1-yl pentafluoropropionate

Inchi: InChI=1S/C26H47F5O13/c1-33-2-3-34-4-5-35-6-7-36-8-9-37-10-11-38-12-13-39-14-15-4

InchiKey: IPUQPUUBZMLNAC-UHFFFAOYSA-N

Formula: C26H47F5O13

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

Mol. weight [g/mol]: 662.64

Physical Properties

Property code	Value	Unit	Source
gf	-2189.25	kJ/mol	Joback Method
hf	-3277.24	kJ/mol	Joback Method
hfus	79.52	kJ/mol	Joback Method
hvap	102.46	kJ/mol	Joback Method
log10ws	-0.51		Crippen Method
logp	1.540		Crippen Method
mcvol	458.060	ml/mol	McGowan Method
pc	612.08	kPa	Joback Method
rinsol	3260.80		NIST Webbook
tb	1107.08	K	Joback Method
tc	1473.51	K	Joback Method
tf	707.26	K	Joback Method
vc	1.782	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1648.75	J/molxK	1107.08	Joback Method
cpg	1659.45	J/molxK	1168.15	Joback Method
cpg	1661.54	J/molxK	1229.22	Joback Method
cpg	1654.75	J/molxK	1290.30	Joback Method
cpg	1638.81	J/molxK	1351.37	Joback Method
cpg	1613.45	J/molxK	1412.44	Joback Method
cpg	1578.40	J/molxK	1473.51	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U351977&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
hvpap:	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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