

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

2,2,2-trifluoroacetate

Other names: Octaethylene glycol monomethyl ether, trifluoroacetate
3,6,9,12,15,18,21,24-Octaoxapentacos-1-yl trifluoroacetate

Inchi: InChI=1S/C19H35F3O10/c1-24-2-3-25-4-5-26-6-7-27-8-9-28-10-11-29-12-13-30-14-15-3

InchiKey: ARSDKBBZINYWGK-UHFFFAOYSA-N

Formula: C19H35F3O10

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

Mol. weight [g/mol]: 480.47

Physical Properties

Property code	Value	Unit	Source
gf	-1546.41	kJ/mol	Joback Method
hf	-2335.13	kJ/mol	Joback Method
hfus	59.08	kJ/mol	Joback Method
hvap	82.58	kJ/mol	Joback Method
log10ws	6.27e-04		Crippen Method
logp	0.854		Crippen Method
mcvol	338.280	ml/mol	McGowan Method
pc	947.91	kPa	Joback Method
tb	884.35	K	Joback Method
tc	1088.01	K	Joback Method
tf	558.08	K	Joback Method
vc	1.310	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1126.64	J/mol×K	884.35	Joback Method
cpg	1143.78	J/mol×K	918.29	Joback Method
cpg	1159.16	J/mol×K	952.24	Joback Method
cpg	1172.75	J/mol×K	986.18	Joback Method
cpg	1184.49	J/mol×K	1020.13	Joback Method
cpg	1194.34	J/mol×K	1054.07	Joback Method
cpg	1202.26	J/mol×K	1088.01	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=U351960&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

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